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A. Borell

1963

Catalogue

#6138 - 6273

Catalogue

- Borell Ojo Laguna, 5000 ft. el.
6-March Chihuahua, Chih. Mex.
1963 (60 miles north of the City of
Chihuahua on the ranch of
Feb 28
- 6138 Black-throated sparrow ♀ ova minute
March 1
- 6139 white crowned sparrow ♂ Testes not enlarged
from group of 3 feeding on cottonwood
catkins
- 6140 Vesper sparrow ♂ Testes not enlarged
- 6141 Lincoln sparrow ♀ ova minute
- 6142 Brewer sparrow ♀ ova minute
- 6143 " " ♂ testes minute (Skeleton)
- 6144 Ruby Crowned Kinglet ♂ testes minute (collected
Feb. 28
- March 2
- 6145 Song Sparrow - ♀ ova minute
- 6146 Wilson snipe ♀ ova minute. well
fleshed but not fat
- 6147 Wilson Snipe ♀ ova minute. well
fleshed but not fat. crops of both
contained earth worms & small black
insects.

Catalogue

Borell
1963

Ojo Laguna, Chihuahua, ~~Chih~~ Mex.
5000 ft el.

March 2

6148 Teal, green-winged ♂ Testes not enlarged,
very slender, measured 7 x 1 mm. very fat.
stomach (gullet) contained insects and many
small black seeds.

✓ 6149 Teal, green-winged ♀ ova minute.
some fat but not so fat as ♂
(above) taken from the same flock.

6150 Baldpate ♂ testes not enlarged
measured 12 x 2 mm. in reasonable
flesh but no fat. Shot from flock
of 30 ducks, mostly bald - no other
baldpates seen. gullet empty.

March 4

6151 Onychomys ♀ 139-48-20-16 fat
no embryo. Taken in tall grass in
cotton rat runway

6152 Greater yellowlegs ♀ ova minute
(shelletor only) First one seen. was
at small pond with two Diaz
ducks.



Catalogue

Borell March 5 Ojo Laguna 5000 ft.

1963 → Cinnamon Teal ♂ testes not enlarged
6153 measured 8x2 mm. m. Fat. with 3 ♀ just
 seen here. iris bright yellow, feet
 yellowish.

March 6

6154 Junco sex? fat among live oaks
 10 mi. w. Ojo Laguna 6000 ft. et.

6155 White winged Dove ♀ ova not enlarged, largest
 2x2 mm. colors bluish purple. good flesh
 but not fat. 10 mi. w. Ojo Laguna 6000 ft. el

Ojo Laguna, 5000 ft. Chihuahua, Mex

6156 Diaz Duck ♀ ova not enlarged
 largest 2x2 mm. good flesh but not
 fat. feet dark pink. Shot on small
 ojo pool from flock of 9 Diaz ducks

6157 Coot ♂ testes not enlarged 5x2 mm.
 iris red, feet greenish gray. Shot
 from small Ojo pool. with 9 Diaz
 ducks. only coot seen to date.



Catalogue

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✓ 6157 March 6. Ojo Laguna, Chihuahua
5000 ft. el. Mexico.

6158 Scalled Quail ♂ testes not enlarged 3x2mm.
In good flesh but not fat. Shot
from flock of 30. Crop full (soared).

6159 Stomachs (crops) of six scalled quail
taken from flock of 30 at 6 P.M.

6160 Crops of 3 mourning doves.
taken 10 mi. W. Ojo Laguna at
el. of 6000 ft.

March 10

✓ 6161 Savannah Sparrow ♀ ova minute

✓ 6162 Myrtle? Warbler ♀ ova minute

March 11

6163 Painted Redstart ♀ ova minute

6164 Brewer? Sparrow ♂ testes minute.

•

Catalogue

A. E. Borell Ojo Laguna, Chihuahua Mex.

1963 El 5000 ft.

March 12

- 6165 Pipspit ♂ testes minute
- 6166 Songspur ♀ ova minute.
- 6167 ~~Teal~~ Sandpiper ♂ testes minute. legs & olive,
- 6168 Snowy Plover ♂ testes not enlarged 4x1 mm.
- # 6169 Longspur ♂ testes not enlarged 1x1 mm.
- 6170 Coyote ♀ wt. $24\frac{1}{4}$ lbs. $45\frac{1}{2}$ - $12\frac{1}{2}$ - $7\frac{1}{4}$ - $4\frac{1}{4}$
very fat very old. Trapped by
Gutiérrez. near our camp -
traps set for raccoon. no embs.
- 6171 Horned Lark ♀ ova minute
- other only 6172 Crane (Little Brown?) feather only. See
notes in journal for this date
- 6173 Grasshopper Sparrow? Sparrow ♀ length 153 mm.
ova minute. shot at sunset among
bulrushes. yellow at wing bends,
- 6174 Blackbird? ♀ ova minute, molting
on head. very fat. was sitting alone
in top of large willow tree.

fattest coyote I ever saw - removed
a double handful of pure fat
from the stomach cavity around
the kidneys. In spite of its
age it may be living fat
on the heavy population of
cotton rats and dead livestock. Its
stomach was full of cow hair and old hide.

Catalogue

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1963

- ✓ 6174 Borell Ojo Sa Juna Chihuahua, 5000 ft Mex
March 13
- 6175 Cinnamon? Teal ♀ ova small
no fat - in company of three other ♀ teal
- 6176 white-Cr. Sparrow ♂ teste minute
- 6177 " " " ♀ ova minute
These two white crs. (two races) taken
at one shot from a flock of 30 feeding
on the ground under a large cottonwood.
- 6178 Rana - ^{new} the first and only frog seen.

March 14

- 6179 ^{swamp} Rana - caught in trap set for rails
- ✓ 6180 ^{ova} ~~Sparrow~~ Sparrow - ♀ minute caught in trap
set for rails among bulrush (3 square)
- March 17
- 6181 Song Sparrow ♀ ova minute
- 6182 Dowitcher ♂ teste small 1x3 mm shot
from group of 4. fat
- ✓ 6183 Blue-winged Teal ♂ teste small 1x7 mm.
- 6184 Shoveller ♂ teste small 3x11 mm. wt 1 lb.
skin was greasy but no real fat.

March 18

- ✓ 6185 Virginia Rail ♂ teste 2x5. fat.
caught in rat traps set for rail among
bulrush around permanent ojo pool.



Catalogue

26 Borell Ojo Saguna, Chihuahua, 5000 ft. el.

1963 Mex ad

March 19

6186 Lepus gillardi ♀ ad 550-65-127-112
Skeleton only no embryos. In good flesh but not fat.
 Had a few small tapeworm cysts
 See other notes under journal for today.

March 20

6187 Coyote ♂ ad. $46\frac{1}{4}$ -13- $7\frac{3}{4}$ - $4\frac{1}{2}$ wt $31\frac{1}{4}$ lbs.
Skin Only Trapped by Dr. Gasteriez. Fat but not so fat
 as ~~the~~ ♀ no. 6170. Stomach = afterbirth ad cow hair.

6188 Rana caught among bulrush in
 trap set for rails

6189 Meadowlark F ova small largest 2×2 mm.

6190 Audubon warbler ? not in full song but
 notes like eastern race.

6191 Reithrodontomy ♀ 139-64-17-12 no embs
 March 21

wing only Mallard F ova small largest 3×3 Fat.

6192 shot from group of 5 on ^{Rio} Santa Clara near
 old M.V.Z camp site. (1 mi. S. Santa Clara Chihuahua)

March 22

6193 Gratchatcher F ova minute

6194 Peromyscus ♀ 197-88-21-15 lactating

6195 " ♀ 143-59-20-15 4 embs. measurement
 in each 10×12 mm.

6196 Chipping? sparrow ♀ ova minute. was in
 company of several others in large cottonwood.

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Catalogue

O El Borell Ojo Laguna, Chihuahua, 5000 ft. Mexico

1963 March 22

6197 Redwing ♂ testes 2×2 alone in willow tree
only one other ♂ seen, no ♀s, little singing

6198 Clipping 25 sparrow ♀ ova minute. ^{was with} # 6196
March 24

6199 Rail, Virginia ♀ ova small, very fat
caught among bulrushes in trap set for rails

✓ 6200 Raccoon ♀ 785 - 270 - 110 - 57 wt 11 lbs.
fat - no embs. Stomach contained bait items.

6201 Hoary Bat ♀ 137 - 48 - 5 - 18 no embs. not fat.
Shot while hanging from twig in large
cottonwood at 3 p.m.

✓ 6202 Snow Goose ♀ ova small, largest 2×2
mostly 1x1 mm. shot from flock of 100.
Mar 28

✓ 6203 Pine Siskin ♀ ova minute, one of two perched
in a willow tree.

✓ 6204 Baird's Sparrow ♀ ova minute single bird.

✓ 6205 Snowy Plover ♂ testes enlarged 10×2 from
group of 5. (very fat)

✓ 6206 Savannah Sparrow ♀ ova minute. from
group of 8.

6207 Horned Lark ♂ testes enlarged 5×6 mm.

Catalogue

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1963

R.E. Boell Ojo Sagana, Chihuahua Mexico 5000ft. el.
March 29

6208 Raccoon ♀ 815-280-120 - 58. $1\frac{1}{4}$ lbs
fat. no embs

✓ 6209 Palm warbler ♂ testes minute.

✓ 6210 Towhee, green-tailed ♀ ova minute,

6211 Sparrow, grasshopper? ♀ ova minute - from
meadow near grass

6212 Sparrow, song ♀ ova minute

6213 ~~Buffalo~~ March 30 ^{B. wood at meadow}

6214 ~~Ranjerod rat~~ ♀ 184-95-35-11 no embs
caught at edge of cactose

6215 Bewick Wren ♂ testes small) 30% were over

6216 " " " ♀ ova small) shot from
a big cottonwood where they foraged along
the trunk ad top branches from 20
to 40 ft above the ground.

March 31

6217 Virginia Rail ♀ ova small -

✓ 6218 Curlew ♀ ova small, ^(no fat) ^{1x1 mm.} from back of 54.

✓ 6219 Pocoet ♀ ova small 2x2 mm. very fat. from
over scattered grass of 100.

✓ 6220 Gull, ring-billed? length ^{fat} 20 in. ♂ testes small 5x1 mm.

6221 Salamander, found near shore of big lake.

Ambystoma tigrinum

* feet and legs pale yellow greenish-

Catalogue

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1963

at 8 Boell Ojedaguna, 5000 ft. Chihuahua, Mexico
April 1

- 6222 Thrasher, curve bill 3♂ testes small 2x2 mm.
6223 Brown Towhee ♀ ova small
~~6224~~ April 2
✓ 6224 Western Sandpiper, ♂ testes 1x1 mm. fat, shot from flock of several hundred (fat)
6225 Cotton rat ♂ 248-95-29-18 testes enlarged caught among bulrushes in wet area
6226 Salamanders 4 adults } Seined from
6227 ^{Anableps} " 6 sub adults } salty playa
6228. " 7 larval } lake.

April 5

- 6229 Salamanders, 9 sub adults from playa lake drying
6230 Bi-valves, small jar of shells from edge of big playa lake. I could find no living specimens.
6231 Kangaroo Rat ♂ 232-118-36-10 testes enlarged; April 6

✓ 6232 Lucy warbler ♀ ova minute - shot from large cottonwood. one or two seen each day since Mar 30. fat no embo.

6233 Banded-tail Kangaroo Rat ♀ 316-178-53-13

6234 Gopher ♀ 240-65-32-5 no embo - from sandy-gravelly soil.

Catalogue

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1963

✓ 6235 Bodell Ojo de agua, 5000 ft. el. Chihuahua Mexico

" April 8

✓ 6235 Bittern ♂ testes enlarged 8×20 mm. flew
from bulrushes around ojo pool. stomach
full of giant black water beetles - 7 could be
segregated.

✓ 6236 Yellowthroat ♂ testes small 1×1 mm. shot
from 15 ft. in cottonwood. Second ^{one} seen.

✓ 6237 Vireo, Solitary ♀ one minute, from large alamo.

✓ 6238 Olive-backed Warbler ♀ one minute, from alamo.

April 9

✓ 6239 Black-tailed Grackle ♂ testes enlarged 2×3 mm
alone in mesquite.

✓ 6240 House wren? from large alamo.

✓ 6241 Goldfinch ♂ testes minute

April 13

✓ 6242 Cactus Wren ♂ teste slightly enlarged $4 \frac{1}{2} \times 2 \frac{1}{2}$ mm.

✓ 6243 Boettisi Sparrow ♂ " 1×2 mm

✓ 6244 Wied's Crested Flycatcher ♂ teste 2×3 mm.

✓ 6245 Parula Warbler ♂ teste enlarged 2×4 mm

April 14

✓ 6246 Coyote ♀ 1200-345-190-110 wt $10 \frac{1}{4}$ kg
Skull only ($2 \frac{1}{2}$ lbs) in good flesh but not fat.
young adult no embo. stomach full of
beef carcass, caught in trap set for raccoon

Catalogue

1963

2 & Borell Ojosaguina, Chihuahua, 5000 ft. el. Mexico
April 14 (cont)

6247 Swamp Sparrow? had nematodes in area
of gonads. was with three other swamp sparrows
among bulrushes and weeds in wet area.

6248 Virginia Warbler ♂ testes enlarged 2×3 mm

6249 Orange Cr. Warbler ♂ testes 1×1 mm.

6250 Wilson Warbler ♂

6251 Rana pipiens

April 15

6252 Tops minnows (4) from Ojo

6253 Tadpoles from Ojo

6254 King Snake, in grass at edge of mesquite

6255 Hornedtoad, Pleurodema maculatum "

April 16

6256 Yellow Racer ♂, 20 miles west of
Gallego 5200 ft ^{Maricopa Co., Arizona} " " "

6257 Striped Racer ♂ ^{Arizona} ~~Arizona~~ ^{desert plain} 4 mi. S. Ricardo Flores
Magon, 5000 ft. el. on the Rio Santa Clara.

6258 Suckers 3, Rio Santa Clara, Ricardo Flores Magon.

6259 Minnows 3 " " " " "

6260 " 4 " " " " "

6261 Tadpoles 4 " " " " "

6261A Club 1

Catalogue

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1963

- 6261 Bird Ojo Saguaro, 5000 ft. el. Chihuahua ^{Mexico}
April 17
- 6262 Empidonax ♂ testes small - from willow. tree
- 6263 Garter Snake ^{Thamnophis sirtalis}, from wet area near ojd.
- 6264 Diaz duck ♀ wt. 1½ lbs. ova 3×4 mm.
Bill yellow-orange, light greenish near base and tips, nail dark, ridge and a widened 'saddle' brownish. Brown ridge separated from nail by greenish. Feet coral or dark pinkish orange. was with 4 others. The skin was very greasy but there was not a heavy layer of fat. Many pin feathers about $\frac{1}{2}$ developed, much down.
- ✓ 6265 Tree Swallow ♂ tes. minute
April 18
- 6266 Whitewing Dove ♂ testes enlarged 13×5 mm.
Cere blue, iris yellowish orange. Fat.
- 6267 Crissal Thrasher ♀ one enlarged 2×2
April 20
♂s only
- 6268 Scaled Quail (Crops only) from 5 killed for the table
testes of 2 ♂s enlarged 3×4 mm. ova of 3♀ - not enlarged.

Catalogue

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1963

28 Borell Ojodajuna, Chihuahua, 5000 ft. el. Mexico

April 25

- ✓ 6269 Bewick's Thrush ♀ One small
6270 Cowbird ♂ testes enlarged - shot from
group of 4 males - first ones seen
6271 Kingbird?
6272 Tufted Titmouse ♂ testes enlarged 5x10 mm.

Borelli

1963

Journal

Journal

Borell

Ojo Saguna 5000 ft el
 Chihuahua, Chihuahua Mex.
 (60 mi. north of the city
 of Chihuahua on the ranch
~~of Sr. Cresencio Gutierrez~~
~~of Sr. Manuel E. De Tellez~~
~~Same site as occupied by~~
~~two previous M V 2 parties.~~
 (Ojo Saguna Station)

Feb 27
 1963

Mrs Borell and I occupied
 site at noon with G.M.C.
 suburban ad 26 ft. sixteen
 house trailer. Made camp ad
 set up tent. Warm and
 very windy.

Birds seen

Brewer Blackbird - 10

Mourning Dove - 100

Meadowlark - 10

Marsh Hawk - 2

Black-throated Sparrow - 4 (collected 1)

Ruby Crowned Kinglet - 1 (collected)

Chipping Sparrow - 20

Sp. - 1

✓
 Brewer

Herps = none

Ducks = none

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Journal

2

Borell
Feb. 28
1962

Ojo Laguna 5000 ft. Chil. Chil.
Birds seen. Cold 55° at noon
Wilson snipe - 50 Windy
Marsh Hawk - 2
Red tail Hawk - 1
Mourning Doves - 50 { some coming-in
Vesper Sparrow - 3 { tracks, no pairing
Shrike - 2
Meadow Lark - 10
Black breasted sparrow - 10
Brewer Sparrow - 40
Brewer Blackbird - 12
Vermillion Flycatcher - 2
Say Phoebe - 2
Sparrowhawk - 1
Marsh wren - 1
Racoon - fresh tracks seen

Spring is just beginning to break.
Catkins on female cottonwoods
are ^{fully} open. Heard mourning dove
cooing. No leaves or cottonwood,
willow, catalpa or mesquite.
Ground is dry but considerable
water Ojo Laguna Lake.



Journal

Borell.
March 1
1963

Ojo Saguna 5000 ft. Chihuahua
Cloudy - Grey

Birds seen:

Cactus Wren - 1

Wilson Snipe - 5 only five in
same field in which I saw
50 yesterday

Brewer's Sparrow - several hundred
abundant everywhere in brush
in large flocks. (Two collected)

Brewer Blackbird - 15

Lincoln's Sparrow - 1 (collected)

Vesper Sparrow - 10 (1 collected)

White-Crown Sparrow - 10 (1 collected)

Northern Mockingbird - 20

Shrike - 1

Sparrow Hawk - 1

Marsh Hawk - 2

Black-headed Grosbeak - 10

Meadow Lark - 10

Ducks - none

Geese - none

Cold last night - ice on water. 30° F
at 7 am. To-day is beautiful
and warm - only a light wind. 77° F at noon.

Audubon Warbler - first one seen here -
They were abundant at Mazatlan in Jan 2, 1963.

Journal

Borell Ojo Laguna 5000 ft. Chihuahua
 March 2 ~~Chi.~~ Mexico
 1963

Cold and calm last night, ice
 on open water 30° at 6 a.m. warm
 sunny day 80° at noon windy
 1 P.M.

Tried spot lighting wilson snipe
 last night - saw none.

Birds seen

Brewer Sparrow - several hundred

White Cr. Sparrow - 20

Song Sparrow - 1 (collected) ^{first seen} among edges

Vesper Sparrow - 10

English Sparrow - 3 (beginning regular flights)

Black Chinned Sparrow - 6

Brewer Blackbird - 15

Sparrow Hawk - 2

Marsh Hawk - 2

Stimbe - 1

Meadowlark - 30

Vermillion Flycatcher - 3

Say Phoebe - 4

wilson Snipe - 10 (collected 2)

Baldpate (collected)

Green-winged Teal - collected 3 from

stock of mixed ducks - others not
 identified Diaz Duck saw two flying at sunset.

(Cont.)

Journal

Borel Ojolagua, 5000 ft. Chihuahua
 March 2 ~~St. L.~~ Mex.
 1963

mammals

Tracks of large raccoon in path leading to marsh.
Don Gutierrez has killed two striped skunks apparently
 M.M. Too ripe to save.

Days - Heard toads off frogs in marsh last night. Have seen no snakes or lizards
 Saw tadpoles in one pool

March 3 Sunday. warmer but windy
 worked on fat ducks collected yesterday. Saw no new birds.

Seven traps set in heavy grass for four nights have caught 1 cotton rat and one Peromyscus maniculatus - not saved

Borell
1963

Journal
Ojo Saguna, Chihuahua, 5000 ft Mexia

March 4. Hard wind all of last night and to-day. Had to take the tent down to save it. much dust in the air. Warmer last night, no ice, 45° at 7 a.m. Seven mouse & rat traps in tall (wet area) grass caught 1 Oryzomys (sawed) & 1 Spermophilus (not sawed). 5 steel traps set for raccoon caught 0.

went to the pond ($\frac{1}{2}$ mi. N) where I flushed tho 30 ducks on Mar 2. No ducks. Birds seen -

saw most of the birds previously recorded. In addition

Turkey Vulture - 1

Roadrunner - 1

Marsh wren - 1 (seen previously)

Brown towhee - 2

Gray Duck - 1. (Two seen Mar 2)

Harris Hawk - 3 in one cottonwood
Doves are cooing but no mutual flights.

5 P.M. Returned to Pond ($\frac{1}{2}$ mi. N) saw one coot (new) ad, ^{shot} one Greater
~~Lesser~~ Yellowlegs

Siskin - 1 came to tree on ^{first seen} canyon.



Borell
1963

Journal
Ojo Sagina, Chihuahua, Mexico

March 5.

Cold wind all last night and all of today.
Temp 35° at 7 a.m. 55° at 1 p.m.
Took trap with Sr. Gutiérrez to
Ojo Sagina Station, on the railroad
5 mi. E. of Ojo (springs) where we
are located. There is considerable
water in the big laguna but it is
muddy, salty and too exposed on
a cold windy day for birds.

New and less common birds

Bronzed Sarks - 30

Diaz ducks - 6 first seen

Cinnamon Teal - 16 with 3 ♀. (Collected)

Bald pats - 1

Brown towhee - 2

Cactus wren - 2

No major change in birds observed
just few days. Brewer Sparrows
still here in large numbers.

Linnets - 3

Scaled Quail - 30 in flock near camp.
first seen.

Mammals

Pacoons - caught one in steel trap
but it tangled ^{drag} traps ($1\frac{1}{2}$) around
post and pulled free

Traps in marsh caught - 0.

Journal

J. G. Borell Ojo Saguna, Chihuahua, Mex. Mex.
1963

March 6

Less wind but much colder - 18° F. at
7:30 am.

Made a short trip into the
marsh this morning and again
this evening.

Birds seen in and adjacent
to the marsh were the same
as for the past several days
except the following:

Coot - 1 (collected)

Diaz Ducks - 9 (collected)

Scalped quail - flock of 30 - six
taken. all were in good flesh
but not fat. Crops full (swollen)
quail have not been heard calling
and the gonads of those taken
show no enlargement.

Journal

Borell
'63

March 6, Ojo Paguna (Cont.)

Drove 13 miles from camp
along the road leading over the
mt. to Santa Clara - to 6200 ft.
Birds observed. west from Parrita

Brewer Sparrow - most abundant
bird in lower portion of canyon
but still present at 6200 ft.
Junco (red-backed) very abundant
5500 to 6200 ft el.

Vesper Sparrow - common

Brown towhee - common

Pyrrhuloxia - ♂ & ♀ feeding
on prickly pear. Junct.

Dove, mourning abundant

Dove, whid-winged - 1 (collected)

Jay (Scrub) - 20

Red-tailed hawk - 1

Black Phoebe - 1

Say Phoebe - 3

~~Golden~~ (Bewick) - 1

Robin - 1

Roadrunner - 2

Green winged Teal ♀ & ♂ together in
Turkey Buzzard and - 1 pool in creek

Sparrow Hawk - 2

Flicker - 2

Journal

6 Boell Ojo Laguna (Continued)

1963

March 6

- Red-shafted Flicker - 4
- Merriam woodpecker - 3
- Vermilion Flycatcher - 4
- Raven (sp?) - 2
- Wren-cactus - 1
- Wren-Rock - 1
- Mocking bird - 2
- Butcherbird - 3
- Wattle ~~audubon~~ - 2
- English Sparrow - 5 (near camp)
- Brewer Blackbird - 10 (near camp)
- Meadowlard - 10 (near camp)
- Goldfinch - 2
- Black-throated Sparrow (near camp)
- Brewer S.
- Lincoln Sparrow! (near camp)
- White-Crowned Sparrow - 30 from camp to 6000 ft. el.

Considerable water at intervals in this ^{Canyon}
 The season appears to be a bit
 more advanced up the canyon than
 here at Camp. Willows and
 cottonwoods at 6000 feet el. show
 a distinct greenish cast. willows
 are coming into leaf.

Journal

28 Borll Ojo Laguna, Chihuahua, Chih.
1963 Mex. 5000 ft el.

March 7

Prepared specimens - made no new observations. Temperature & wind moderate

March 8 - 9 Trips to Chihuahua for provisions and mail. Dinner with the Baldwin. Saw no new birds around camp or enroute.

Grackles around Santa Rita molted where we stayed demonstrated myna-like activity.

March 10 Cold and extremely windy. Temp. at noon 60° F. Made a short trip around the spring ponds.

New birds:

Mallard drake - on small pool with one Diaz duck. First mallard seen - was not able to collect it. ducks on ponds.

Savannah Sparrow - 10 - One collected

Redwing Blackbird ♀ - first seen

Swallows - 25 - Tree or violet green

Brewer Sparrow - still abundant

wilson warbler - 35. Harris Hawk - 1

Journal

Summary of observations

E. Borell Feb. 27 through March 10 (written March 10)
1963 Ojo Laguna, Chihuahua, 5000
ft. el. Mexico

windy and cool to cold most
of this period. On two nights the temp.
went below 18°F . judging from the fact
that it was still 18°F . when I looked at
the thermometer in the morning.

There is still not much evidence
of spring. catkins are on cottonwoods
and willows but no leaves. Mesquites
and catclaw still show no signs of
life. A few blades of green are
showing on gramma grass and
sacahuas.

Breeding activity.

The only birds showing signs
of mating are English Sparrows
and a few of the mourning doves. One
dove shot (not preserved) had testes
enlarged. A few males have been
cooing singly in trees and I have
seen a few nuptial flights but
most of the are still in flocks.

Enlarged gonads were not found
in any of the birds prepared.

It appears that most of the birds here
during this period are residents or winter ^{residents}.

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Journal Summary continued

Feb. 27 - March 10

E Borrell Ojo Saguan Chihuahua Mex
963

Herps - a few tadpoles seen
in one pool.

Toads heard one night at
one pool.

No snakes or lizards seen
so far.

Mammals - I have done little
trapping but did catch several
Promyscus maniculatus, 1 cottonrat
& 1 Onychomys. Have seen only one
bat.

Raccoon tracks of at least two
raccoons have been seen in
the trails in the marsh - none taken.

Rabbits are extremely scarce
have seen fresh pellets of
jackrabbit only in one place - no
evidence of cottontail.

Coyote - heard on 3 nights, few tracks

mechanis Mr. Gitterman trapped
two just before I came here.

Journal

(Continued) 14

Sunway Feb 27 - March 10

(written March 10)

Borell
1963

Ojo Sa guna, Chihuahua, Mexico

Ducks. There is plenty water but ducks are scarce.

Diag Ducks have been ^{the} most common duck during this period. Saw 1 to 9 almost every day. Saw no evidence of pairing (1 collected)

Green-winged Teal - several seen the first few days - none since.

Baldpate one male collected, one other male seen.

Cinnamon teal - one collected, no others seen.

Mallard. One drake seen this morning in small pool with one Diag duck.

A few other unidentified ducks were seen early on March 2 - appeared to be green-winged teal.

Borell

Journal - Summary (Continued)
Feb. 27 - March 10

15

1963

Ojo de Agua, Chihuahua, Mex.

Turkey Vulture - one seen

Red-Tailed Hawk - one at 6000 ft. el.,
~~one~~ here near camp.

Harris Hawk - 4.

Marsh Hawk - 1 to 3 each day

Sparrow Hawk - 1 to 3 each day

Killed quail - 30

Coot - 1

Killdeer - 2 - 4 each day

Wilson's Snipe - one to 50 each day I went to the marsh. although widely distributed in wet areas they are far more abundant in a wet field that had corn growing there last season. ~~that~~ although the number ^{to-day} has fluctuated I saw 35, which indicates that they have not yet migrated out of the area.

Greater yellowlegs - 1

Mourning Dove common 30-100 seen each day

Whitewinged dove - one at 6000 ft. el. in Canyon to Santa Clara

* Refers to 6000 ft in
canyon above Parrita that
leads to Santa Clara

Journal

16

Summary Feb. 27 - Mar 10 (cont.)

8 Borrell
963

Ojo Saguna Chihuahua Mexico

Roadrunner - a single bird seen
several times

Owls - none seen or heard.

Hummingbirds - none seen

Red-shafted Flicker - 1 or 2 each day

Sadder-backed woodpecker - 2-5 each day

Nighthawks - none

Say Phoebe - 1-5 each day

Cassidodonax sp? - only 1 seen

Black Phoebe - 1 at 6000 ft el. ^{canyon to} Santa Clara
no other flycatchers or kingbirds seen

Vermillion Flycatcher - 1-5 each day;

Scrub Jay - 20 at 6000 ft *

Swallows - few seen, tree or violetgreen?

Marsh wren - 1-5 each day

Bewicks wren - 1 at 6000 ft.

Rock wren - 2

Cactus wren - 2

Mockingbird - 1-3 each day

Thrashers - none

Bluebirds - none

Ruby-crowned Kinglet - 1 seen
one at 6000 ft el.

Robin - 1 at 6000 ft el.

Journal

Summary Feb 27 - Mar 10 (Cont) 17

E Borrell Ojo Saguna, Chihuahua, Mexico
763

Shrike 3 - 1 - 3 each day.

Myrtle Warbler (Possibly Audubons)

1 - 10 each day in cottonwoods (specimen)

No other warblers seen or heard.

English Sparrow - 1 - 5 each day

around the buildings

Meadowlark - 5 - 30 each day

Orioles - None

Brewer Blackbird - 5 - 10 each day

Redwing - one ♀ today

House Finch - 1 - 3 several times

Goldfinch - 2 at 6000 ft el.

Brown Towhee - 2 seen most days around buildings near camp. abundant in canyon at 6000 ft.

Spotted Towhee - 1 seen

Savannah Sparrow - 1 to 10 in sacator on several occasions (specimen)

Vesper Sparrow - 10 - 30 each day

Black-throated Sparrow - 5 - 10 each day

Jurco (Mexican?) abundant in canyon west of Parrita at 6000 ft.

No Jurcos seen here at camp

* Brewer Sparrow - the most abundant bird from base to about 6000 ft. possibly 5000 per each day (specimens taken)

see over

see over

* There could be clay-colored and
clipping sparrows in these
large concentrations

Journal

Summary Feb 27 - Mar. 10 (Cont.)¹⁸

28 Borell Ojo Saguaro, Chihuahua, 5000 ft.
1963 White Crowned Sparrow 5-20 each day
Lincoln Sparrow - 1 - 5 each day
Song Sparrow - 1 (collected)
✓ Pine Siskin - 1 in cottonwood over camp.
Pyrrhuloxia ♂ & ♀ feeding on
cactus fruit at 5500 feet in
canyon above Parrita.

Note. White-crowned Sparrows, Black
throated sparrows, Linnets and
House sparrows have been
observed (with binoculars) feeding
on the female catkins of cottonwood
growing over our camp.

Journal

19

26 Borell Ojo Saguna, Chihuahua, ~~Chih.~~,
1963 5000 ft el. Mexico
March 11

Ice or shallow water, 30° F. at
7:30 am. cold wind all day 62° at 1 pm.
Took long hike to the west and
north. There are a number of pools
and wet areas through this portion
of the sacaton flats.

Bird population about the same
except for the following:

Red-shafted Flickers increased. Saw
one group of nine this am.
Diaz Ducks saw 14 in one flock.
Mallard hen with the 14 Diaz ducks
Killdeers increased. Saw one group
of 20 in a wet area

Shorebirds - one group of 7 flushed
from shallow water area. Not sure
of identity - not able to collect a specimen.
Painted Redstart - first seen - collected
Myrtle &/or Audubon warblers are
increasing.

Brewer Sparrows still abundant
Wilson Snipe - saw 25

Journal

20

E. Borell Ojo Laguna, Chihuahua,
963 5000 ft. El. Mexia.

March 12

Cold last night, ice or shallow
water 30° at 8 am. 72° at 10 pm.
light wind in afternoon

Took long walk past ponds
near camp and on to the big
lake.

The big lake (about 2 mi. east of
camp to edge of water) is extremely
salty. In some places large salt
crystals have formed. Also it is
very shallow.

Birds seen

Green-winged Teal - 15 on pond
near camp.

Teal Ducks - 12 on pond near camp.
Longspur, Chukar Collared - 100 collected.
These birds have been present since
my first trips to the marsh but I
did not record them because I was
not certain of identity. The fly is
large, compact flocks and are not
easily approached. They inhabit the
drier grasslands just east of the
marshy area

Journal

8 Borel Ojo Saguna, Chihuahua, Mexico
963 March 12 (continued)

~~Least~~ ~~western~~? Sandpipers - 30 seen around the big lake and in wet areas nearer camp. They could have been around previously but I did not see any.

Snowy Plover 1 - collected in shallow water of the big lake. It was with western? sandpipers.

Pigeon - saw about 15, collected 1.

Coot - saw one or same pond where one was collected on Mar 6.

Crane - Mr. Gutierrez told me that cranes stop in the flats around the lake. To-day I observed tracks and droppings of cranes and picked up one crane feather.

Flock Goose . Mr. Gutierrez reports that white geese stop around the lake. I have found no proof.

Journal

22

8 & 9 March Ojo de Agua, Chihuahua, 5000 ft
Mexico.

March 13

Took a short trip to the
marshes and ponds north of camp.
It was cloudy and warmer last
night and today 48° at 7 a.m., 72° at 3 p.m.
willows and cottonwoods beginning
to show some green leaves. Mesquites
& catclaw show ~~no~~ sign of life
Birds recorded

Scallop quail - flock of 40 one mile
north of camp.

Deer Ducks - 9 in one flock two other
pairs, when pairs are flushed from
small potholes the hen quacks loudly
while the male gives low grating notes
as does the mallard drake.

Coot - another coot on the same
pond on which one was collected.
Accipiter, one accipiter (♂ Cooper or
& sharp-shinned) observed but not
collected

Longspur - one flock of 150 hundred.

Journal

23

E. Borell Ojo Saguna, Chihuahua, Mexico
1963 500 ft.

March 13

Cold last night (40° at 7 a.m.) and cool but sunny all day 68° at 3 p.m.
Light wind all day.

most of the cottonwoods are coming into leaf - most willows are not. Catclaw & mesquites still dormant.

Very little natural activity among birds and almost no singing.
Occasionally we hear a dove cooing,
the cooing of a roadrunner or a call from a meadowlark.

Birds seen -

Very little change from previous recordings

Brewer Sparrows are still here in great numbers. They are in the marsh, in the brush, in dryland grass, or the ground and even high in large cottonwoods - this makes the collecting of other small sparrows difficult.

Wilson Sedge still here in usual numbers.

Pisimamon? ~~Deaf~~ five ♀s on one pond - one collected.

Journal

2 E. Boell Ojo Sa Juna, Chihuahua, Mexico
 963 March 14
 Cold and clear last night - 26° at 7 am.

Bat - last evening saw the second
bat that we have seen. It was a
 small one that looked like Pipistrellus
 or small myotis. It was alone.

Redwing Blackbird - This morning I
 saw a flock of 20 redwings - the
 first flock so far. At sunset there
 were approx. 100* redwings going to
 roost in the bulrushes near one
 of the Ojos. Most of them were ♀,
 the ♂'s were singing.

Little Brown Crane - saw tracks
 and droppings in an open
 wet area. They were probably 2 or 3
 weeks old.

Journal

E. Borell Ojo de Agua, Chihuahua, 5000 ft
1963 Mexico.

Cold & windy.

Redwing Blackbirds - To my surprise there was not one redwing in the area where there were 100 last evening. The flock I saw last evening apparently was a migrating flock - unfortunately I did not take any specimens.

Ravens - saw a group of 7 - the most I have seen so far

Diaz Darks - saw a group of 9 and a pair by themselves.

Grackle, or 8 in cottonwoods, the first seen here.

went to Chihuahua in the pm to get mail & provisions - extremely windy in Chihuahua.

6 Borrell Ojo Jajima, Chihuahua, 5000
ft. el. Mexia.

March 16.

Retuned from Chihuahua at 4 P.M. — did not go to the field elevation — Jim Christman told me that there was some uncertainty regard the elevation of this camp. I checked my altimeter on leaving camp and on reaching Chihuahua $1\frac{1}{2}$ hrs. later. and again on our return when we left Chihuahua and when we reached camp. Going to Chihuahua we altitude registered a drop ~~of~~ about 350 feet and on the return a gain of about the same amount. Our A.A.A. basket gives the altitude of Chihuahua as 4593. If we add 350 feet to that we get a figure (altitude) of approx. 5000 ft. My altimeter seems to be sometimes too much but difficult to read closer than 100 feet.

16. A.B.

Trees in leaf and bird singing in Chihuahua makes it appear that Chihuahua is considerably lower than Ojo Jajima but that over may be due to the fact

* see over

x that ojo Layma is in a
valley that catches and holds
the cold air from the
surrounding mt.

Mar 26

If Mr. Baldwin told me that
according to the Mexican Geological
Survey the altitude at
Chilma has is 4633.69 ft.

9 & 10 Boddy Ojo Laguna, Chihuahua, 5000
ft. ab. Mexico
March 17

Cold and windy, wind very strong
in P.M. Temp at 3 P.M. = 68°.
Went to the Laguna ponds near
camp and also to the big lake.
Redwing blackbirds - none present
see note for Mar 14 (P-24)

Wilson Snipe - still present in
usual numbers.

Ring Ducks - 10 in one flock, 3 in ^{another}.

Green winged Teal - Flock of 8 on
small pond near camp. Took two -
both were thin, ~~ova~~ small.

Noted no other change in
bird population in marsh or
around ponds near camp.

Herps - Saw one small lizard
run under a rock pile near camp
- the first this season

Journal

6 Borell Ojo Saguna, Chihuahua, el 5000 ft.
Mexico

March 17 Continued

waded almost across the big lake. The lake (water) now covers several hundred ad perhaps over 1000 acres — the surprising thing is that I did not find any water over 3 inches deep. It is a very shallow playa that will likely dry up shortly. The water is ^{bitterly} ~~bottom~~ slippery.

Birds seen around the playa.

Shovelers, about 200 shovelers were actively feeding. Apparently some seeds must be washed or blown into the playa. It doesn't appear that any food could be produced in the lake. I took a ♂ & ♀. Both were thin — the pair weighed $1\frac{3}{4}$ lbs. ova not developed in ♀. No shovellers or other ducks ^{the lake or marsh} were seen. Bluewing teal — one collected — no others.

Dowitcher one (non-breeding plumage) collected from a group of 4, another group of 5 was observed.

Journal

6 Borell Ojo Saguna, Chihuahua, El 5000 ft.
163 Mexico
March 17 continued

- ✓ Blue Heron, one observed sitting (standing) on a small hummock in the lake. I was able to approach within 100 yards and examine it with binoculars.
- ✓ Snow Goose. about 80 in a compact flock standing in the shallow water. I flushed them three times but was not able to get closer than 200 yards. They were observed standing and in flight with binoculars. There appeared to be no flew geese or Canada geese on the lake.
- ✓ Long-billed Curlew, one observed with binoculars at 100 yards but I was not able to collect it.
- ✓ Gull - one smallish, large white gull seen flying over the lake.

Journal

30

C. E. Borell Ojos Saguaro, Chihuahua,
1963 5000 ft el. Mexico.

March 18

Cool and windy. Prepared
specimens collected yesterday and
the Virginia Rail trapped this am.
made a trip to the pools near
camp this morning and again
this evening.

Observations:

Jackrabbit, Californicus type, one
(the first and only rabbit seen here) was
seen at dusk running through the
brush near camp.

Grackle, boat-tailed, a pair (the
first to see) were here all day
among the cottonwoods. The ♂
made a few calls but its
nuptial activity was not nearly
so advanced as grackles observed
in Chihuahua during the past
three weeks.

Butterfly (mourning cloak) one
near camp - first this year

E Borell Ojo Laguna, Chihuahua,
963 5800 ft el. Mexico

March 19. It is surprising how cold it remains at this date. Again there was ice or the shallow ponds. The thermometer said 26°F at 7 a.m. and only 50°F at noon.

There is considerable difference in the leaf development of cottonwoods. On some the leaves are $\frac{1}{3}$ to $\frac{1}{2}$ developed, others are still in the catkin stage. The willows show the same differences in development but are less advanced than the cottonwoods. The mesquite & catclaw are still completely dormant in outward appearance.

Made a trip to the nearby ponds and also to the big lake.

At the pools near camp saw 10 green-winged teal, 6 Diaz ducks and 4 blue-wing or cinnamon teal. The latter all ♀.

Brewer Sparrows & Wilson Snipe still present in usual numbers.

Roadrunner, observed one at close range, its streaked breast indicated Californicus.

Blue heron one seen near
the largest pool in morning
and again in the evening

Willet - two seen and heard at
small wet area near camp. was
not able to collect them.

6 Borell Ojos Saguna, Chihuahua, 5000 ft ll
9 6 3 mexicu

March 19 continued
at the big lake.

Shoveler - counted 48 - saw no
other ducks

Snow geese - none

Least Sandpiper - 100 - no other shore birds.

Pipit - 6

Horned Lark none in the area
where several were seen on Mar 12

Leyus gilliardi, one ♀ junged from
its form and taken near the big
lake. I hunted the area but could not
find its mate (if one were present).
There is more jackrabbit sign in
the sparse salt grass near the lake
than ~~of~~ any other habitat I have visited

Butterfly (^{monarch} ~~monarch~~ cloak) saw
the first one near camp.
also two ~~monarch~~ ^{monarch} cloak
butterflies.

Journal

Co Borell Ojo Saguna, Chihuahua, 5000 ft el.
1963 March 20.

Again ice on the shallow water
24° at 7:30 am. 58° at noon

Bright and sunny, warm in the sun &
out of the wind.

Made a trap this morning and
again this evening around the ponds
and shallow marshes.

New birds

Gnatcatchers (Blue-gray?) — 2

Barn Owl, one in large cottonwood.

Yellow-headed Blackbird 1 ♂

Crow, flew from a willow tree at
the edge of the marsh. It did not look
or fly like a raven.

Redwing Blackbird a flock of about 100
came to the marsh this evening. all
seemed to be ♀ or imm ♂. I could see
no ♂ in the flock.

Yellowthroat — 1 ♂

Brewer Sparrows, Wilson snipes

Vesper Sparrows, Lincoln Sparrows

and White-crowned Sparrows are still
here in their usual numbers.

Saw no herps except a Rana caught
in a trap set for rails.

Journal

E Borell Ojo Saguna, Chihuahua, 5000 ft. Mexico
9 8 3

March 21

Trip to Santa Clara & Los
Jugillos (mesporonite store) about
50 miles each way from Parrita.
over the roughest road I have ever travelled.
In the worst section we made 15 miles in
one hour of steady driving.

Santa Clara creek has considerable
water. There is not a fast flow but
the supply is continuous and there are
many pools.

Birds observed near the old camp
site on the ^{Rio} Santa Clara.

Belted Kingfisher - 2

Spotted Sandpiper - 2

Greater yellowlegs - 3

Dowitcher - 1

Mallard - 5 (one & collected)

Green-winged Teal - 4 (on small pool at ^{river} ford)

Black Phoebe - 3

Vermilion flycatcher - 2

wilson snipe - 1

8 Boell Ojo Saguna, Chihuahua, Mexico
1963 Trip to Santa Clara (Continued.)
Birds seen in vicinity of Campo Mennitos.
Crows - 43 in newly plowed field
Chestnut Collared Sparrow - 200-300 in compact flock fields,
Horned Larks 200-300 in loose flocks
in grassland
✓ Scaups (Greater or Lesser?) one on Presa
among live oaks.
Greater yellowlegs - 1 at Presa

Enroute between Parrita and
Campo Mennito. Birds seen.-
Jays - many
Brown Towhees - many
Finches - many
Doves, many -
White-wing Doves - 6
Pyrhuloxia - 2
Black Phoebe - 1
Raven - 6
Thrasher? - 1

Rock Squirrel - 1
Cactusmouse - 10

Journal

28 Boell Ojo Saguna, Chihuahua, Mexico
1963 March 22

Cold windy day - 40° F. at 8 am - 58° F.
at 1 P.M.

walked around the ponds near camp ad
made a trip to the big lake.

Observations near camp.

Crows, groups of 2, 3, ad 15 flying over ad
leaving in corn field.

Thrasher? - 1

Spotted Towhee - 1

Ducks = none

Grackle - pair

Yellow-headed Blackbird - 1 ♂

Pony spur, chestnut collared - flock of 30

Brewer Sparrow - still abundant.

Velvor Singe - usual numbers.

Observations at the lake

✓ Gadwall - 1 ♂ alone

Mallard ♂ with pair of spoonbills

Spoonbill - 3 in same area where there
were about 200 on Mar 17 ad 48 on Mar 19. Shot
one ♂ - thin, teste small 2 x 8 mm.

Least sandpiper - 100

Snowy Plover - 6

Crane (little brown or sandhill) Recent tracks of
several ad tracks of 3 made yesterday or today.

Pipit - 6

Horned Lark - 3

caught & marsh hawk in trap set for
raccoon. One small, largest 1x1 m., n. stone
contained hair of cotton rat.

Journal

E Borel & Jo Sajena, Chihuahua, 5000 ft. ll. Mex 1963
March 23

Cool cloudy day, 40° at 7 am. 58° at ~~11:30~~^{4:30}

Diaz buds - hiked to all of the
soyonto Diaz duck pools this am.
ad to three of them again this eve.

Saw no Diaz ducks or any other buds.

Snow Geese - six flew over camp
at 6 p.m. ad went down on the
big lake

Crane (little brown) heard cranes
at 9 this morn over the lake.

Gnatcatcher - saw two collected one.

Kinglet (Ruby Cr) saw 4 in cottonwoods

Crows - none

Wilson Snipe - usual number

Brewer Sparrow - many

White Cr. " "

Redwing Blackbird - 2 males - lots singing

Rattlesnake - saw the first one - it
was in a little path in the
sacaton grass a few feet from
the mesquite near one of the pools.

✓ *✓* *✓* *✓* *✓* *✓* *✓* *✓* *✓*

Journal

Zorell
1963

Ojo La Laguna, Chihuahua, 5000ft. Mexico
March 24

very hard wind last night -
Beautiful morning - hard wind in P.M.
Observation -

Virginia Rail - caught another one
in a cat trap

Ducks - saw or heard none - earlier
this week the Diaz ducks were doing
a lot of quacking

Wilson snipe - present in all wet areas

Brewer Sparrows - few

Kinglets (Ruby cr) - several

White cr. Sparrow - about the same

Snow Goose - a flock of about a
hundred rose from the big lake and
flew directly west about 7 P.M. They flew
over me as I was setting a raccoon trap
and I was able to collect one.

Saw no birds mammals or herbs
not previously recorded.

Journal

3A

E Boell Ojedagua, Chihuahua, Mexico
1963 March 25

Prepared the goose, rail ad bat
collected yesterday then went to
Chihuahua.

The only unusual abenation was
about 100~~s~~ snow geese that
flew into the big lake about 9 am

March 26 In Chihuahua.

went to Chihuahua Lake (8 mi. W.
of city) with the Baldwin. saw the
following waterfowl

Gadwall - 30

Spoonbill - 10

Scamp (greater-lesser?) - 6

Coot - 5

In Chihuahua saw Inca doves ad
Grackles carrying nest material.

Black locust in bloom ad mesquita
about $\frac{1}{4}$ in leaf.

March 27 returned from Chihuahua
about 3 P.M.

a flock of about 40 ~~snow~~
geese left the lake about
6:30 P.M. ad flew directly
west.

Journal

40

1963

E Borell Ojo Saguna, Chihuahua Mexio.

March 28

Made a tour around the ponds
near camp then drove to the big lake.
Near camp saw the following

Diaz ducks - 11

- Pintail drake - 1

- Green-tailed towhee - 1

Pyrrhuloxia - 1

At the big lake saw the following
birds of interest

- Avocet - 50 not present or previous
Snow geese - 80 went to the big lake.

Gulls ? - 6

Curlew, long billed, - 1

Snowy plover - 5

Shoveler - 30

Least Sandpiper - 20

Journal

1963

E. Borell Ojo Saguna, Chihuahua, 5000 ft. Mexico
 arch 29 Much warmer - spring may be on its way. Cottonwood are about half way to full leaf, willows are just coming into leaf. Catclaw still dormant, mesquites mostly dormant. Some green showing on several kinds of grass including sacaton, more bird singing than ever before.

Bird observations

- ✓ Palm warbler, three feeding in large cottonwood, 1 collected, others later in day
- 44+ Towhee - green tailed - saw & collected 1
Grackle, boat tailed 1 ♀ 4 ♂, males in song
Kinglet, Ruby Cr., - 6 in cotton woods some singing.
Redwing blackbirds - 4 males singing
Wilson Sedge - common in wet areas
Brewer Sparrow - many
White Cr. Sparrow - many

Herps - saw the tails of two snakes

Saw (collected) first Lizard.

" ~~two~~ lizard up?

1963

at Borell Ojo Saguna, Chihuahua, 5000 ft Mexico
March 30 -

Cool cloudy 46° at 7 a.m., 68° at 1 p.m.

Took a trap around the ponds ad around
the old adobe buildings looking for birds.

Diaz ducks - a group of 3 & a group of 2.

No other ducks

Geese, saw a flock of 30 flew low
from the big lake at 7:30 this am.

Barn Swallows - 8 over the marsh
- first seen this year.

Palm warbler - None seen in
trees where present yesterday

Bewick wren - 2 in big cottonwoods - both
Gambel's - 7 males.

March 31

Temp 7 a.m. = 46° . Temp 3 P.M. = 68°
Traps around the ponds near camp ad 8 ad
big lake.

Diaz ducks - 3

Shoveler - 50

Anocet - 100, one collected

Curlew - 54, one collected

Gull - ring-billed 8 - 8, one collected

Virginia Rail - that one taken in trap.

Blue heron - one on big lake

Geese - None.

Journal

1963

R. E. Boell Ojo Sagua, Chihuahua, 5000 ft., Mexico

April 1st

Temp. 56° at 6:30 a.m. 76 at 3 p.m.

Took a trip to the ponds and to the brush country above camp.

Thrashers - 3, collected one.Green-tailed Towhees - 8Wilson's Snipe - present in wet places in usual number.
Brewer Sparrows - abundant.Audubon warblers - none. apparently they left here about March 25. (See April 6 journal note)Palm warbler - none. They were present in the cottonwoods over camp only on March 29.Barn Swallow - 7 - first seen ~~March 30~~

April 2

Temp 56° at 6:30, 76 at 1 p.m. very hard wind last night, some wind today

Made a ~~trip~~ around the ponds at & the big ^{playa} lake.Green-winged Teal - 7 on small pond, 3 taken (♂ ♀ ♀) all were without fat. gonads small.Cliff Swallow - 5 first seen- Western Sandpiper - 4 to 500 - were not present on March 31Brown Geese - 15 Avocet - 24Blue Heron - 2 Greater yellowlegs - 2Least sandpiper - 50. Mallard - 5 ♂ ♀Shoveler - 30. Curlew - none

Journal

1963

28 Borrell Ojo Sa juna, Chihuahua, 5000 ft. Cl. Mexico
Apr. 3

Cool, no wind 37° at 6:30 am.

Trip around the ponds ad through the brush country to the west.

Green-tailed towhees widespread saw 25 - 30

Thrashers (crissal ?) - 2

Owl (~~long-eared~~ ^{long} eared ?) - 1

Grackles - 7♂

went to chihuahua in 8 am.

Apr 4 Retuned from chihuahua at 2 pm.

Trip around the ponds

Dowitcher - 4 ♂ & ♀ shot - gonads small in non-breeding plumage

Kingbird (Cassin ?) - 2 first big birds seen

Apr 5 - Trip around the ponds ad to the big playa lake.

Dray ducks - 6

Green-winged Teal - 4

Mallard ♀ - 1

Snow goose - Three flocks of about 60, 30 & 30 flying north (high) between 10 ad 11 am. None stopped at the playa lake.

Least sandpiper - 10, Snowy plover - 1

The big playa lake is now almost dry. It is now an extensive wet mud flat with water

1963

28 Bozell Djo Saguna, Chilimukha, 5000 ft el. measured.

Apr 5 - continued

only in a few horse tracks and in one channel that enters the lake on the east side. Fresh tracks indicated that ^(mostly shovelers) one skink and many ducks, avocets ^{gulls} and curlews had foraged for salamanders, insects and other food in the rapidly disappearing water. Shovelers feeding in the extremely shallow water left the marks of their breasts and toes in the slimy mud. These tracks or paths would ^{easily} pass for turtle paths - I saw no evidence of turtles. The raccoon had gone far out into the playa - at least $\frac{1}{2}$ mile for the nearest grass cover. Tracks of several salamanders ended abruptly where they were ^{were} intercepted by the tracks of the raccoon. The surviving salamanders mostly adults were wandering aimlessly over the mud flats or seeking survival in the horse-tracks that held water. At my approach their defense was to lower their heads and raise and curl their tails. Fortunately for the salamanders last night was cold (38° at 7 am) and the morning was extremely foggy. Surprisingly

Journal

1963

Borell

Ojosaguea, 5000 ft. s.l. Chihuahua Mex. id.

Apr. 5 continued

enough until 9 am. to restrict visibility to about 50 yards. The last of the fog held on until 11 am. Tracks showed that some of the salamanders reached the grassland around the lake and tracks of two led to the (possible?) safety of rodent burrows. There was no evidence of toads or turtles or large insect larvae in the playa.

Notable by their absence were avocets, curlew, western sandpiper, gulls, blue-herons, ad shouelers that were present on my last visit to the playa on April 2.

Discovery of the salamander in the playa may account for the previous presence of the blue herons.

Among other food items in the salty playa water is a small bivalve. Its presence is indicated by undrains of tiny shells. (sample saved).

Journal

1963

E. Borell Ojósaguna, Chihuahua, 5000 ft el. Mexico
April 6

Cold last night, 36° at 7 am. 70° at 1 P.M.
Beautiful day - little wind.

Trips around the ponds & through the
brush country west of camp.

Long-eared owl - 1 probably same one seen
on Apr 4.

Diaz duck - 6

Mallard ♀ - one with group of 4 Diaz ducks.

Green-winged teal - 3 - shot ^{♂ & ♀} 2 both thin ad
no gonad development.

S Lucy warbler - 1 - have seen one or two
each day since Mar 30 but I wasn't
certain of identification

Audubon warbler - 2 First Bullock

White cr. Sparrow - 100 Oriole arrived -

Brewer Sparrow - 300 Cottonwood over

Vesper " - 50 Camp at 5 P.M.

Green-tailed towhee - 50

Wilson snipe - 8-

Snow geese - none

Catclaw still dormant, some mesquites
showing green, willows about to end leaf,
cottonwoods start $\frac{3}{4}$ into leaf, small
leaf sumac coming into leaf. Sparrows
no longer feeding on cottonwood catkins.
Very little bird singing or nuptial antics.

Journal

1963

EBorell Ojo Saguna, Chihuahua, 5000 ft. el mexic
April 7.

warm day - made a trip to
Gallego, El Guero, Records Flores, Magon,
Buenaventura and Presa El Tintero.

The latter is 37 miles south of Buena-
ventura over rough road. we spent a
short time in the morning and again in
the evening along the Rio Santa Clara
where the highway crosses it.

The only new bird seen was one
- Inca dove. It was near a house ad
we couldn't collect it. Saw two black
pheasants near the highway bridge

Between camp ad Gallego saw two
flocks (about 30 each) of Scaled quail.

There was no signs of pairing but
two birds made several passes
at each other with spread wings

They are building a new paloza
on the Santa Clara (Rio del Carmen)
about 4 miles above R.F. Magon.

1963

28 Borell Ojo Saguaro, 5000 ft. el. Chihuahua, Mex.
al 8 Our warmest day 46° at 7 am, 82° at 4 P.M.
Made a ~~walk~~ around the ponds,
through the brush and among the alamos.
new birds

- ✓ Amer. Bittern - 1 collected
- † Orange Cr. Warbler - 1 shot but not preserved
- ✗ Solitary Vireo - 1 collected
- ✓ Parula? Warbler 1 collected

White Cr. Sparrow - 3 caught in mouse traps - both races represented - gonads not enlarged

Green-tailed towhees still abundant
Yellowthroat collected - Second one seen
Vermilion Flycatcher - saw female forming

nest in alamo about 20 ft. from ground

Wilson Snipe - still common - flushed 4 from
one small wet area

Snow Geese - small flock flying north at 8 P.M.

Brewer Sparrows - still abundant

Vesper " " "

Herps

Killed my second rattlesnake at 6:30
P.M. near camp. A small red one.

Lizards still scarce.

Journal

50

1963

28 Borel Ojocajima, Chihuahua, 5000 ft. el. Mexican.
April 9. 54° + at 7 a.m. 80° at noon.
Tray around the ponds, through the
brush and among alamos.

Collected two new birds - black-tailed
grackle & house wren.

Drake ducks - three groups, 4, 3 & 2. one
of the two had a yellowish bill like
a female mallard - all the others I
have examined with glasses had
greenish bills like a drake mallard.

No major change in winter birds,
wilson snipe; Brewer, white cr.,
vesper and clipping sparrow
still common.

Green tailed towhee still plentiful.

April 10, 11 & 12 In chihuahua to meet
J. G. & Ruth Barnesberger, to get provisions
and to contact Dr. Lopez (taxidermist) re
grizzly bears. Have arranged to see
him and to get photographs of grizzly
bears that he has killed.

Lark Bunting, several hundred in
the edge of chihuahua. I have seen
more in the vicinity of camp
which is 60 miles north of camp.
April 14 - hauled this P.M.

Journal

1963

E. Borell Ojo Saguna, Chihuahua, 5000 ft. Tel. Mexico
 April 15. Still cool at night but getting warmer during the day. 44° at 6:30 am. 82° at 10 am. Trees are not yet in full leaf and some shrubs like catclaw and some plants of mesquites are just beginning to put out leaves. Willows are in full bloom but leaves only about $\frac{1}{4}$ out. The flowers of willows apparently attract insects and therefore many birds - especially warblers.

Wilson's Snipe - 4

Brewer Sparrow - still abundant
 White Cr. " - 20

Vesper Sparrow - 4
 Savannah " - 3

Swamp Sparrow - 4

Nighthawk - 2 first ~~was~~ seen

Bullock's Oriole - males present in almost every large tree but no ♀'s.

Kingbirds (Cassini western?) - 8

Ash-throated Flycatcher - 4

Warbling Vireo - 1

Wilson Warbler - 20 (most common warbler)

Rudolphi's Warbler " - 5

Yellowthroat - 2

Panama?, Lucy, Palos, Virginia seen previously were not seen today

Journal

1963

E & Borell Ojo Saguaro, Chihuahua, 5000 ft. el. Mexico.
April 15 continued

Dusky duck 3 ad 2 ad a singles. The
loud quacking indicated that the single
was a ♀ also 2 of the group of 3.
Scaled quail - Two ♂s calling yesterday
ad again today.

Barn owl a pair are trying to
select a small cavity for nesting
in the cottonwood over camp. They
remained in the tree the last
two days ad at night screech ad
utter their characteristic "clicking" mating call.
Boat-tailed Grackle, six ♂s & 3 ♀s - appear
to be trying to select nesting sites in the
cottonwoods around camp. Yesterday
I saw 14 in one group flying north.

Herps - Snakes ad lizards are
becoming more in evidence. There
are now many snake "tracks" crossing
the roads ad trails. Today I collected a
large king snake ad a small hognose.
Lizards have been scarce ad very
wild but several were seen today.
Have seen no garter snakes ad only
one bufo.

1963

E. Borell Ojo Sagua, Chihuahua, 5000 ft. alt. Mexico.

April 16

Made a trip to Ricardo Flores Magon which is 37 mi. w. of El Sueco (or Gómez) at the intersection of the paved highway ad Rio Santa Clara (which in this area seems to be known as Rio del Carmen). we crossed the river then drove up (south) four miles along a dirt road that lays along the dry foothills parallel to the irrigated river valley. along the river bank ad the main irrigation ditches are rows of large cottonwoods ad willows. The willows are now heavily infested with tent caterpillars. most of the valley (about $\frac{1}{2}$ mi. wide) has been cleared ad is in intensive cultivation. The land is now being plowed ad seeded. The dry hill sides are covered with grass, mesquite, cholla, possibly pear, little-leaf sumac, catclaw and a few other shrubs - including some desert willow (*Chilopsis*) in the draw. There is a good flow (possibly 10 S.F.) of water in the Santa Clara but most of it is being taken out above ad around Magon.

Journal

1963

8 Borell Ojo Laguna, Chihuahua 5000 ft. el. Mexico.
April 16 continued.

According to our altimeter the river at that point is about the same elevation as at Ojo Laguna (5000 ft.) However the vegetation is more advanced. Mesquita is in full bloom - none of the mesquita is in bloom around Ojo Laguna.

Birds seen

Ring-necked ducks - two along the Rio

Greater yellowlegs - 1 along the Rio.

wilson ad audubon warblers seen in cottonwoods & willows.

Curve-billed Thrasher - much more common than around Ojo Laguna.

Cactus wren, ^{& linnet} - More common than around Ojo Laguna.

Brewer Sparrows, green-tailed towhee, white Cr. Sparrow - about the same numbers as at Ojo Laguna.

Scaled Quail - 1 flock of 5. one (♂?) dashing about with spread wings.

white-winged dove - two (not together)

Hummingbird(?) - 1 - first seen.

Mourning doves - abundant - in pairs or small groups.

1963

• Bozell Ojo Laguna, Chihuahua, 5000 ft. El Mexico
April 16 Continued.

Cooper Hawk - 1

Swainson Hawk - two on fence posts west of El Sueco.

Pezjet - 1 at edge of Rio.

Sparrow Bunting - 300-400 along road side between Ojo Laguna & El Sueco. None at Ojo Laguna so far.

Mammals - 4 mi. S Ricardo Flores Magón

Cottontail - 1

Caly. Jackrabbit - 2

Woodrat - many nests among cholla

Fish, three kinds (sucker) two kinds of minnow) seized from pool in river at Ricardo Flores Magón.

Herps - Saw two gopher snakes ad on yellow (red) race between El Sueco and R. Flores Magón. Presumed the latter. Four miles up the Rio Santa Clara south from R.F. mago collected a striped (racert?). Saw only one small lizard

Journal

1963

R.R. Boell Ojo Saguaro, Chihuahua, 5000 ft elev. Mexico
 April 17, 54° F. at 6:30 a.m., 78° F
 at 1 P.M. A terrific wind has
 blown since yesterday morning.
 It blew with a vengeance and both
 days has resulted in bad dust
 storms.

Made a trip around the ponds
 and into the monte.

Drake ducks - saw groups of 5, 3, 2 & 1.
 collected one ♀ from the group of 5. The
 group of 3 consists of a drake & two hens.
 What appears to be the same group of
 3 has been seen repeatedly since Mar. 30.
 Loud quacking indicated that the lone
 duck was a ♀. The ♂ can be recognized
 by their low grating quack like that of
 a drake mallard.

Wilson Snipe - only one in the favored
 haunts where I usually flushed four to 10.

Brewer sparrow - still abundant.

White Cr., Clipping, Vesper and
 savannah Sparrow still present.

Warblers - only Wilson & Virginia &
 Audubon seen today.

Say Phoebe nest in cavity in side
 of old willow, 10 ft from surface - 3 eggs
Tree Swallow, one collected from a ^{*over} tree

a flight of several hundred swallows
(Tree, Barn, Cliff & Rough-wing) that
were foraging over a marshy area.

Journal

1963

El Borell Ojo Salana, 5000 ft d. Chihuahua Mexico.
April 18

Still cool, 48° at 7 a.m., 80° at noon & 78° at 4 p.m. Very heavy wind all afternoon. Tramped around the ponds, willows, cottonwoods and the mesas.

Major change in bird population - no Wilson warbler and no Audubon warblers seen. Pelecanets & yellowthroats were seen. White-winged dove - collected just one seen here.

Scaled quail - Two coveys. Birds appear to be still in coveys but the coveys are looser, & few seen to be in pairs associated with the coveys. No male calling.

A second nest of Vermilion Flycatcher (in the making) observed in a large alamo 20 feet from the ground.

Mourning Dove - some coming early in the morn and a few in flight seen.

Journal

1963

J. E. Borrell Ojos Largos Chihuahua, 5000 ft. elev. Mexico

April 19

35° F at 6:30 a.m. went to Chihuahua for mail & supplies

April 20 In Chihuahua

On April 10 I met a Dr. Manuel Ojeda (phone 23064) at the Pemex station on Blas Ciano de los Rios and Universidad. He took me to a taxidermist and guide Alejandro Lopez Escalera, address Pacheco 2205 phone 25097.

Mr. Ojeda speaks good English, is President of the Apple Growers assoc., has large acreages of apples in the mts. west of Chihuahua and is apparently wealthy. He ~~stated~~ is apparently wealthy, knows the mts. and state of Chihuahua and offered to assist in whenever needed.

To-day (Apr 20) I again contacted Dr. Lopez with Mrs. Baldwin as interpreter. Lopez, who has been (and still is) a professional guide says that he (probably him & his parties) killed 15 grizzlies between 1928 &

* 1956. In 1954 he killed a ♀ &

Captured a cub which he kept in captivity until 1956 when he sold

Journal

58

1963

R & Bobb Ojo Lajana, Chihuahua, 5000 ft max'd
April 20 - costed

* To D. Pablo (Buck) Romero, Ford
Agency, Mexico City. Lopez believes
that this bear ^{is} now in the Zoo
in Mexico City. In 1960 Lopez made
a trip into the Sierra del Nido.
On that trip he saw the remains of
one large bear and two cubs that had
apparently been killed by poison. The
remains were near the carcass of
a dead cow - apparently killed by
the grizzlies (and the remains
poisoned by the rangers). On that
trip Lopez says that he saw the
tracks of a grizzly that measured
16 inches. Lopez believes that nine
grizzlies have been protected no
professional guides are hunting
or taking hunters to hunt grizzlies.
However he thinks that ranchers
& rangers shoot or poison bears
as opportunity offers. He claims that
rangers frequently carry poisoned
sweet pellets (or balls) when
traveling in bear country and drop
them when bear sign is encountered.

* This is the bear referred to
by Starker Leopold on page 420
of his book - wildlife of man.

Journal

1963

E. Borell Ojeda, Chihuahua, 5000 ft. Mexico.
April 20 - Continued.

Lopez has photographs of several grizzlies and black bears (and wolves) killed in and around the Sierra del nido. I obtained from him ~~three~~ 8x10 glossy prints of three of his best photos of grizzlies (100 pesos). Also I obtained from him data on each of the prints. Lopez believes that there are still grizzlies in the Sierra del nido as well as in surrounding ranges to the north, south and west.

Lopez claims that he knows the mountains and people of Chihuahua and is anxious to be employed as a guide if M.V.Z. people want gather more information on grizzlies. Lopez says that formerly there were grizzlies in the Sierra Perico (hills) just north of Chihuahua.

Journal

1963

6 Borrell Ojo Laguna, Chihuahua, 5000 ft el.

April 21

Returned to camp from Chihuahua at 10 am.

While in Chihuahua (Apr 19-21) made the following bird observations:

yellow-headed blackbird and cowbirds about 50 of each present in large Alamos at the Santa Rita resort. Only one yellowhead and no cowbirds have been seen at Ojo Laguna.

Male & female Grackles were observed carrying nest material in the Mexican cypress trees at the Santa Rita resort. No such activity seen at Ojo Laguna.

At a large stock tank beside the highway 40 miles north of Chihuahua (west side of highway) the following birds were seen

Ding ducks - 18

Shorebirds - 6

Scaups - 2

Pring Jilker - 1

Mourning doves - 100

Evening at ojos near camp

Wilson Sings - 2 - Chipping Sparrow - 3

Barn Swallows - many

Tree Swallows 1, Cliff Swallow - 2

Journal

1963

- 8 Borell Ojofajuma, 5000 ft el. Mex. 6.
- April 22 Cool cloudy day 50° at 6:30 am, 60° at 11a. no new records
- April 23 Blue winged teal } one of each together
shoulder } on small lagoon.
Cotton tail - 1
Jack rabbit - 2
- April 24 Made a long trip around Ojofajuma, wet areas, Alamo & through the brush.
- Deer ducks - Three groups of 5, 2 & 2 There were at least seven ducks the second group seen may have been repeats.
- Other ducks - none seen
- Wilson snipe - none - none yesterday
- Killdeers - 6 (3 pairs)
- Ravens - 10 - six were sitting on fence posts in a strong wind which ruffed their throat feathers - white was conspicuous.
- Barn owls - pair are nesting in cottonwood above camp. They screech and make their clacking noises frequently during the night.

Journal

1963

- 26 Borrego Ojeda, Chihuahua, 5000 ft. d. ^{Mexico}
 Apr. 24 continued
- Bullock Oriole, males and occasionally
 ♀s are present in every large almond.
 There is much chasing, chattering
 and singing among the ♂s.
- Empidonax - several seen. They
 have been scarce or absent most
 days previously.
- Ash-throated Flycatcher - 10 - constantly
 chattering & chasing.
- Say Phoebe - 8 - a second nest
 with three eggs found in window
 sill of old adobe
- Kingbird (Cassin or western) - 10
 much chattering & chasing
- Vermilion Flycatcher - 8 mostly
 paired & apparently nesting -
- Marsh Hawk - 3 Sparrow Hawk - 2
- Red-tailed Hawk - 1
- Gaudin's Hawk - 1
- Accipiter (possibly ♂ Cooper) - 1
- Wilson Warbler ♂ - present in
 almost every willow & almond
- Audubon Warbler - 3 ♂
- Yellowthroat - 1
- No other warblers

Journal

1963

E Boell Ojo Tagua, Chihuahua, 5000 ft. Mexico
 April 24 - Continued

White Cr. Sparrow - 10 Eight
 observed with bimacular indicated
 both races still present - numbers
 much reduced over last week.
Vesper Sparrow - 1 - Numbers
 reduced

Brewer Sparrow - 30 - Numbers
 reduced

Chipping Sparrow - None - apparently
 have left since April 2

Lincoln Sparrow - 2

Sennarorn's Sparrow - 2

Horned Lark - 1

Western Tanager - 1

Roadrunner - 1

Cactus Thrasher - 1

Pyrrhuloxia - 6 - apparently
 not fully paired.

Brown Tanager - 4 - apparently
 fully paired

Bank Swallow - 100+ or - flying
 over wet area - 8 or 10 tries to
 nest in the guttering of garage

Tree Swallow - 2

Rough winged Swallow - 5

Journal

1963

6 Bodill Ojibwaya, Chihuahua, 5000 ft. sexed.

April 24 - continued

Cliff Swallow - 1

Grackle - 2 ♂ Having seen as many as 14 ♂ & ♀ previously the presence of only 2 ♂ for the past several days indicates that some of the individuals here previously were migrants - or seeking favorable feeding sites. No nesting activity has been seen here to date.

Brewer Blackbird - Both ♂ & ♀ are still present but no nesting - Several flocks of 20 to 50 were seen during the past two weeks.

Redwing Blackbird, a few ♂ are singing in the willow area. The flocks of 50 - 200 seen during the past two weeks are not present.

Virginia Rail - one seen among bulrushes.

Pipit - 1

Flicker - 0

Woodpecker - ladderback - 3

Aeon Storied woodpecker - 1

Journal

1963

28 Boell Ojeda, Chihuahua, 5000 ft. d mixed
til 24 Turkey Buzzard - 1

Scaled Quail - Two coveys of about
30 each. There is some evidence
of pairing but not much calling.

Ruby Cr. Tiptot - 6

Nighthawk - More seen since the
two on Apr 15.

Warbling Vireo - 2

Solitary Vireo - 1

Verdin - 1

Cactus Wren - 3

Mourning Dove - 8 - Have seen
no nests but there is considerable
evidence of mutual fly bys and
the birds are mostly in pairs.

Hawks - None except the little
in the ojos and a very few rana.

1963

26 Boell Ojeda, Chihuahua, Mexico.
ril 25 Still cool & cloudy. 56° at 7 am.
Made a short trip among the
almos and the mesquites then
broke camp and drove (with
Trailer) to

Bird note

Hermit Thrush - 1 collected (fatten)
Coyote - 4♂ 1 collected. were common in
Chihuahua on Apr 2. These are the first
seen here.

No other changes in bird population
over yesterday.

Spring is well advanced but
summer definitely is not yet here.
Mesquite and Catclaw are now in
blossom and Mesquite is fairly well
in leaf and some plants have
new shoots 6 to 8 inches long.

Catclaw is often 4' in leaf. Sacaton
grass in the moist site now has
considerable green. The country
is dry - there have been only
a few drops of rain since we
came on Feb. 27.

It is with regret that
we leave our camping spot

1963

Borill Ojeda, Chihuahua, Mexia.
under the cottonwoods. Dr. & Sra
Gutiérrez (Cresencio) have been
most cordial and helpful. They
are fine people. We will
look forward to returning to the
delightful spot as opportunity
permits.

A. Borrell

1964

Catalogue

* 6250 - 6325

Catalogue

Borell
1964

Ojo Saguna, 5200 ft el. Chihuahua Mex.

Summer April 21

- ✓ 6250 Spurred Tanager ♀ ova minute
6251 Solitary Vireo wt 20.5 g. ♂ testes 3x1 m.
6252 Wood Pewee wt 12.2 g. ♂ testes 1x1 m.
6253 Mac Gillivray warbler wt 10.1 g. testes 1x1 m ♂
6254 Inca Dove wt 41.8 ♂
6255 western Flycatcher wt. 12.2 g ♂ testes minute
6256 Hermit Thrush 18.7 g very thin, ♀ ova minute

April 23

- 6257 Redwing wt 63.3 g testes 5x4 m
6258 " wt 43.2 g ova minute
6259 " wt 42.7 g. ova minute
6260 Wilson's warbler ♂ testes minute
6261 Lincoln Sparrow wt. 14 g. ♀ ova minute
6262 Nighthawk (lesser) wt. 48.6 g. testes 5x4 m.

- ✓ 6263 Swainson Hawk wt. 1017 g. ♀ ova 5x5
was with another Swainson hawk which
appeared concerned. apparently the same
pair I recorded carrying sticks on apr 21
craw ad stomach full of the remains
of a ~~wood~~ cottonrat ad a baby cottonrat.
Flores Magón, 4800 ft. el Chihuahua Mex.

April 24

- ✓ 6264 Green Heron wt 259.2 g. ♀ ova 4x4 m.
Iris yellowish orange, lores and lower mandible
yellowish green streaked with dark olive;
legs yellowish green - little fat.

Catalogue

Borell
1964

Ojo Laguna, 5200 ft el. Chihuahua, Mex.

April 26

6265 Solitary Sandpiper ♀ ova minute. wt 86.6 g.
wt 66.1 g. fat.

6266 Black and white Warbler wt 9.2 g. ♂ testes 1x1^m

6267 yellowthroat ♂ testes 5x4 mm. wt 10.5 g

6268 Pocket gopher ♀ no embs. 250-65-31-5
wt 183.5 g.

April 27

6269 Juncos wt. 20.3 g ♀ ova minute

6270 House wren wt. 5.8 g. ♂ testes 2x2

6271 White Cr. Sparrow wt. 30.3 g. ♂ testes 2x1

April 28

6272 Yellowthroat ~~male~~ Warbler wt 9.3 g. ♀ ova minute

April 29

6273 white throated Sparrow wt 31.7 g ♂ fat

6274 Vesper Sparrow wt 24.2 g sex ?

April 30

6275 Humming bird sex ? wt 4.1 g

6276 white-throated Sparrow

Catalogue

Borell

1964

Ojo Laguna, 5200 ft. Chihuahua, Mexico.

May 2

- 6276 Townsend warbler ♀ ova minute, wt. 8.4 g
First one seen at this location
- 6277 Inca Dove ♀ ova 1x1 in. wt. 43.4 g
Second one seen here
- 6278 Horned Lark ♂ testes 8x4 m. wt. 29.2 g.
- 6279 " " ♀ ova 2x2 m. wt. 26.7 g.
These two horned larks were together - no other horned larks present.

May 3

- ✓ 6280 Phalarope (Wilson) wt 42.3 g ♂ testes 8x3 m
- 6281 " " wt 57 g ♀ ova minute.
A pair taken from a group of two ♂s & two ♀s that were displaying (rapid wing flaps) on a very small pond
- 6282 Western Sandpiper wt 27.4 g, ♀ ova minute
one of three
- 6283 Least Sandpiper wt 20.7 g. ova minute
one of two
- 6284 Yellowthroat wt. 11 g. ♀ ova minute.
- ✓ 6285 Yellowlegs, lesser, wt 79.5 g. ♂ testes 6x3 m
Alone in small marshy area
- 6286 Chat wt 26.6 g. ♂ testes 4x3 m

Catalogue

Borell

1964

Ojo La Laguna, Chihuahua, El 5200 ft.

May 4

- ✓ 6287 Summer Tanager wt 23.7g ♂ tes. 5x3m
- 6288 Verdin wt. 7.3g. ♂ tes. 2x2.
- ✓ 6289 waterthrush, northern. wt 18.1g ♂ tes. 1x1 fat.
- 6290 Woodrat, wt 181.3g. ♀ 310-140-33-29 Embryo two 20x25 m. Two young about $\frac{1}{3}$ grown were trapped at the same nest in the hollow stumps of a cottonwood. The mammal indicated recent sucking

May 5

- ✓ 6291 western tanager wt 30g. ♂ tes. 1x2 m
- 6292 Orchard Oriole wt 19.3g ♂ tes. 5x3m.
- 6293 Dark Sparrow wt. 30g. ♂ tes. 3x3 m.

May 6

- 6294 Waterthrush, northern ♂ tes. 1x1 collected at edge of small pool under cottonwoods.
- 6295 Drake Duck ♂ tes. 35x18m. wt. of two testes 17.6g. wt of duck 663g. thin. Bill yellowish green. more yellowish on the sides near base, no motteling. nail black, eyes dark brown, feet & legs bright orange. It was alone in a small pool when collected

Catalogue

Borell
1964

Ojo Saguna, El 5200 ft., Chihuahua, Mex.

May 6 continued

6296 Swamp Sparrow F ov a minute wt 15 g.
Collected at edge of small pool under
cottonwoods

6297 Painted Bunting wt 18 g. tes. 6x4 m, fat,
on small bush near pool.

May 7

6298 Myotis wt. 8.4 g. 93-35-9-15 ♀

✓ 6299 Ibis, glossy wt. 510 g. fat. ♀ ova 3x3.
iris reddish orange

6300 Orchard Oriole wt. 18.5 g. ♂ tes. 4x4 m

May 8

- 6301 Raccoon ♀ 850-305-125-55
wt 12 lbs. little fat. H embryo, 40x 30 m.
as measured in the embryonic sac.
~~embryos~~ Embryos saved in
formalin. Stomach contents = bait.
Mammary glands indicated that she
had suckled young previously.

6302 Redstart, ad. wt 8 g sex?

Catalogue

Borell

1964

Ojo Saguaro, 5200 ft. Chihuahua, Mex.

May 9

6303 Black throated gray warbler wt 8.4 g fat
♀ ova minute

May 10

6304 Wilson snipe wt 122 g. fat. Food 2x2 mm
only one seen today

May 12

6305 Waterthrush wt. 18 g. ♂ tes. 4x3 m.

May 14

6306 Vireo, Warbling wt 11.8 g. ♀ ova minute

6307 Bunting, Lazuli - wt 14.8 g. ♀ ova minute

6308 Dowitcher wt. 99.4 g ♂ tes. 4x3

May 15

6309 Yellow warbler wt 10 g. ♀ ova minute

6310 Juncos wt 19.5 ♀ ova minute

6311 White throated Sparrow wt 32.5 g. ♂ tes. 4x3

6312 Harvest mouse wt 11.2 g 140-68-18-13

6313 ♂ tes. 6x3

6313 Summer Tanager wt 32.4 g. ♂ tes. 6x5

Catalogue

Borell

1964

Ojo Laguna, Chihuahua, 5200 ft. Mexico

May 16

6314 Lizard

6315 Painted Bunting wt 16.5. ♂ testes 6x4. This bird has ♀ plumage but the enlarged testes identify it as a ♂. There is no mistake.

May 17

✓ 6316 Bronzed Cowbird wt. 67.6 g ♂ tes 6x11 mm.
iris reddish

6317 Red Bat wt. 12.3 g. 101-41-7-8 ♀ one emb 7x5 mm. in sac. Shot at 4 pm as it hung among the leaves near the top of a large cottonwood - about 40 ft from the ground.

May 18

✓ 6318 Cedar Waxwing wt 35.6 g. ♂ tes 3x2 mm
a lone bird shot as it fed on mulberries

6319 Cuckoo, yellow-billed. wt. 53.8 g.

♀ ova 2x2. large bare egg patch.
Shot at 10 am. as it flew into a large cottonwood over our trailer.

May 20 Temp 6 am 59° F.

6320 Lizard, whiptail

Borell

1964

Catalog

Sago La Lajas, Rio Santa Clara, el 4900 ft
Chiapas Lina Mex

Nov 22

6321 Ruddy Duck ♀? wt. 442 g. thin

6322 Grebe, eared ♀ wt 332 g. fat
iris orange

Nov 23.

6323 Bufflehead ♂ wt 397 g. ^{little} fat.

Nov 25

6324 Cacomixtl ♂ ab. wt 1080 g 730-353-70-51
very fat. stomach empty. trapped at
base of steep rocky slope near Rio Santa
Clara a short way above the lake.

Nov 27

6325 Pintail ♂ wt 655 g thin

A. Borrell

1964

Journal

Journal

Borell
1964

Ojo Sagina, 5200 ft. ll. Chihuahua
Mexico (east base Sierra del Rido).

April 21, 1964 ~~Cresencio~~

Reached the Gutierrez ranch at 6:30 P.M. yesterday. Established camp (house trailer) at the same spot occupied in 1963 (Feb 28 - April 5), under the cottonwoods (4) in the yard of Sr. Gutierrez. To day made a trip on foot to some of the better collecting sites north of camp.

The ^{whole} area is considerable dryer than at this time last year. Several of the shallow water areas where I collected waterowl and shorebirds last year are now dry. Someone (within the last week) burned most of the grass area for $\frac{1}{2}$ mile north of camp. This burning removed the bulrush and tall grass that formerly surrounded the largest pool. This burning and the dryness greatly depreciated one of the best collecting sites.

The big laguna to the east is completely dry. Sr. Gutierrez said they have had a cold, dry, windy spring. His cattle are extremely poor.

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Ojo Saguna, Chihuahua, Mex. 5200 ft.

April 21, 1964 (cont)

Cottonwoods are almost in full leaf and the ♀ trees are shedding their cotton, willows are in bloom ~~now~~ and just beginning to leaf out. mesquite are in various stages of leafage, some appear to be dormant ^(no leaves). Others are just beginning to turn green ^(green) and others are ^{in about 1/2 to 1/3 normal leafage} about ^{1/2 to 1/3} normal leafage. Grass in the marsh (Sacaton) has green sprouts 4 to 6 inches long. The general appearance of the marsh is still "dead". Among the mesquite there is little evidence of greening of the grass or forbs. The cattle are not foraging among the mesquite as ~~they were~~ at his time last year.

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Ojo Saguna 5200 ft. Chihuahua, Mexico.

April 21

Birds seen

Wilson snipe 2

Killdeer 2

Swainson Hawk - 2 apparently a pair, both were carrying sticks of little finger size ad 9-14 inches long, one held the stick in its beak and the other held it in its two feet. They circled about a clump of three large cottonwood but departed (still carrying their sticks) at my approach. This would seem to be a very late date for courtships or nest building by hawks.

Sparrow Hawk - 2

Turkey Vulture - 3

Decoy Duck - only 2 apparently a pair

Cinnamon teal - 2 (pair)

Green-winged teal - 12

Shoveler one ♀

Harris Hawk - 1

Barn Owl - 1

Nighthawk 7 - 10

Cuckoo - one heard

Mourning Dove - 50 saw or heard

No evidence of mating

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Borell
964

Ojo de Agua, Chihuahua, Mex 5200 ft el
April 21 1964

Inca dove — one, collected

Barn Swallow — 10

Red-shafted Flicker — 1

Gadwall-backed Woodpecker — 2

Kingbirds? — 25

Wood Pewee — 3 one collected

Vermilion Flycatcher — 15 one female working on a nearly completed nest 30 feet from the ground in a large cottonwood.

Say Phoebe — 3

Western Flycatcher — 2, one collected

Raven ♀ — 6

House Wren — 2

Mockingbird — 1

Hermit Thrush — 1

Shrike — 3

Solitary Vireo — 4, one collected

Rufus-sided Warbler — 3

Wilson's Warbler (isolated) very abundant, 5 to 10 in each cottonwood. They feed from the ground to the top of the tallest trees but mostly in the mid section

Journal

Borrell
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Ojo Saguna, Chihuahua, Mex, 5200 ft. el.

April 21 1964

Yellowthroat - 6

Mac Gillivray's warbler 4, one called
Boat-tailed Grackle - 7 in flock

Brewer's Blackbird several large flocks

Redwing - 3

Meadowlark - 10 probably both

~~Scarlet Tanager~~ eastern & western.

Scarlet tanager - 3 ♀, one ♀ collected

Scott Oriole one ♂

Bullock Oriole - 10 ♂ & ♀ no

~~B~~ mutual activity observed

Pyrrhuloxia - 1 ♂

English Sparrow - 3

Lesser Goldfinch - 10

House Finch - 3

Green-tailed Towhee - 3

Pine Siskin - 50-100 - feeding
on the seeds of cottonwood

Savannah Sparrow - 6

Swamp " - 1

Lincoln " - 3

Grosbeak Sparrow - 15

Chipping " - 6

Brewer " - 60

Borell
1964

Journal

Ojo de Agua, Chihuahua, Mex. 5200 ft.

April 27 1964

A warm windy day. Saw no birds not recorded yesterday.

April 23

Cold night, warm ad very windy day. New birds

Sandpipers (western or Least?) - 14

Wilson warbler. still abundant

✓ Wood pewee - 10. worm-eating warbler,
Wilson snipe - 2 unable to collect

Falcon, (Duck hawk or prairie falcon?) - one

April 24

Trip to Flores Magón, about 65 miles.

Cloudy in the morning, very windy in the P.M. Still some water flowing

in Santa Clara Creek. The new dam on Santa Clara creek above the town of Flores Magón is supposed to be ready to store water this August.

All of the vegetation in the vicinity of Flores is further advanced than at Ojo de Agua. There is an excellent camp ad collecting site about $\frac{1}{2}$ mi. south of the paved highway on the east bank of the Santa Clara. Several big yuccas and many willows ad cottonwoods

Borell
964

Flores Magón, El 4800 ft. Chihuahua Mex.
April 24 (Cont.)

Birds seen

Blue heron - 1

Green heron - 1 collected

Coot - 2 in pool or creek

Mexican Duck - 10

Mallard ♂ This drake was with 8 Mexican ducks. On the ground and in the air it ♂ stayed close to a ♀ Diaz duck.

Blue winged teal - ♂ ♀.

Green winged teal - 6

Shoveler - 3

Buzzard - 4 along the road enroute

Swainson's Hawk - 3 along the road enroute

- Harris Hawk - 1 feeding on road killed Jack rabbit.

Sparrow Hawk - 2 along the road

Scaled quail - pair

Killdeer - 4

Spotted sandpiper - 1

Mourning dove - Abundant at Ojo Lajuna ad at Flores. Some are courting and displaying but most are in flocks and appear to be migrants. I killed 4 at one shot for the pot. The three ♂ showed enlarged testes, the ova of the ♀ appeared dormant all

Borrell
1964

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Flores Major, 4800 ft. Chihuahua Mex

April 24 Continued
were fat but tree had empty eggs.

Inca dove, - 6

Night hawks - 6 at Ojo Sajna, appear
to besser

Barn Swallow - 10 ojo Sajna

Rough-winged " - 15 " "

Violet Green " - 6 " "

Sadder-backed Woodpecker, one at Flores one
at Ojo Sajna.

Kingbird (?) common ~~ojosajna~~ and at Flores

Wood Pewee, common ojo Sajna 2 at Flores

Black Phoebe - one along the Santa Clara

Ravens - 12 along the way

Mockingbird - 3

Curve-billed Thrasher - 6

Cactus Wren - 4

Shrike - 2

Wilson's Warbler abundant

Anderson Warbler - 3

Boat-tailed Grackle - 4

House Sparrow - 6

Meadowlark common along the way

Bullock Oriole - 8

Pyrrhuloxia - 3

Brewer Sparrow - 20

Borell
1964

Flores Magón 4800 ft. Chihuahua, Mex

April 24, continued

White-Crowned Sparrow - 10

Lincoln's Sparrow - 1

✓ Pomarine Curlew - 7 in a field
10 miles west of El Gued.

April 26

✓ Water-Thrush, observed with glasses at close range but was unable to collect. It was on the ground at the base of a large cottonwood tree that grows near a small pool. Its teetering made it resemble a pipit.

April 27

It is still cold at night - 40-50° F. Have seen no snakes and only one small lizard. The wind blows hard part or all of every day.

Bird notes

Hepatic Tanager - saw another ♀

Wilson Warbler - still a few present but the population is declining. Reached its peak about Apr 24.

Cowbird - 1 - Saw two yesterday (Apr 26) the first ones that I saw last year (63) was on Apr 25.

Journal

Bordell
1964

Ojo Laguna, 5200 ft. el. Chihuahua
Mexico -

April 27 Continued
white-Crowned Sparrow - 20 - still
 about as many as when
 we arrived on apr 21.

Wilson snipe - 1

Wood pewee - 10 far more
 numerous than last year - at
 least up to apr 25.

Mourning dove - abundant - flocks
 of up to 20 - apparently migrant.

Robin ♀ one

Pipit - 8

Sandpiper (east-western) - 2

Coot - 1 on small pond

Diaz ducks - 3 in a group.

Shoveler ♂ ad ♀

Cinnamon teal ♂ 2 ♀

Green-winged teal - 5

Twarison hawk, one, apparently
 the mate to the one I collected
Juncos 1 collected

Brewer sparrow - 30

R.S. ♂ flicker - 1

Ladderback woodpecker - 1

Towne wren 1 collected

✓ waterthrush - 1

Journal

Borell
1964

Ojo Saguna 5200 ft. el. Chihuahua Mex

April 28

Drove to Chihuahua for mail & supplies.
 Birds seen before we left at 9 am
Yellowthroat
House wren - collected
Cowbird - 3 - the first this year

April 29

Returned from Chihuahua at 5 p.m.
 Birds seen after we returned.

- ✓ Orchard Oriole ♂ first and only one seen
- ✓ White throated sparrow - 1. collected
- Vesper sparrow - 1

April 30

Day at camp. Cool, sunny, light wind.
 Birds seen

Buzzards - 3

Sparrowhawk - 1

Mourning dove - 15

Barn owl - 1

Hummingbird (broad tailed?) 1 collected

Vermilion Flycatcher - 6

Wood pewee - 2

Cassio Kizildid - 8

Barn Swallow - 10

Raven - 6

Mockingbird ♂ 2

Journal

Borell

1964

Ojo Saguna, Chihuahua, Mex el 5200 ft

April 30 continuedRobin - 3Shrike - 1Solitary vireo - 3Meadowlark - 5R.W. Blackbird one ♂ singing in cottonwoodBullock oriole - 4 very little singing- Blackheaded grosbeak ♀ only one seen todayAnderson warbler - 6Wilson Warbler - 15 still numerous
but not so abundant as early last week- Kinglet - first one seen this year- Chat, yellow breasted - 1 first one seenYellowthroat - 3Grackle - 7Lesser goldfinch - 2Pine siskin - 15 frequently feed
on cotton wood seeds on the groundPyrrhuloxia - pair.Brown towhee - pair - first seen this yearBrewer Sparrow - 50Chipping Sparrow - 6White Cr. " - 24House " - 5

Journal

Borell
1964

San Lorenzo, 5000 ft, Santa Clara,
Chihuahua Mex ^{Rio}

May 1st

Made a trip from Ojo Laguna to San Lorenzo which is village on the Rio Santa Clara about 13 miles up the river (south) from Flores Magón. The river bottom between Flores M. ad San Lorenzo is irrigated ad farmed to maize, cotton ad other crops. we were told that the farm land continues up the river for another 10 miles. San Lorenzo is a beautiful spot with many shade and fruit trees, flowers, gardens, irrigation ditches ad old adobe houses.

Here we met Mr. ad Mrs. Jesse Siemens, american missionaries representing the Church of God and Christ. Visiting them were two other missionaries by the name of Peters - both had beards. Mr ad Mrs Siemens were friendly ad cooperative. Mr. Siemens, who has been in San Lorenzo for 2 1/2 years, told us that last week he and three mexican friends saw four deer on the hill across the

Borell

1964 (Ojo Saguna), San Lorenzo, 5000 ft. elev.
 Rio Santa Clara, Chihuahua, Mex.
 since May 1st. Continued
 river from San Lorenzo. They got two
 guns and managed to kill one. It
 proved to be Mule deer spike buck.
 He said it was large enough
 to be a real load for four men to
 carry to the car. He said it was
 excellent eating. Also Mr. Siemens
 said that last winter (1962-63) the
 natives of the village killed a
black bear in the river bottom near
 San Lorenzo.

Mr. Siemens told us that the
 river at San Lorenzo flows throughout
 the year. He said that permanent flow
 comes from springs near Santa Clara,
 40 miles above San Lorenzo. Also he
 said that following thunder storms in
 late summer the Santa Clara flows from
 bank to bank.

Apparently the climate is milder along
 the Santa Clara than here, at least the
 mesquites appeared to be more
 nearly in full leaf - but we
 saw no blossoms.

Borell

1964

San Lorenzo, Rio Santa Clara 5000
Alt. Chihuahua Mex

May 1st continued

Bird population appear to be
similar to Ojo Pagina except
for the following:

Inca dove, common about Flores
Major ad San Lorenzo ad arbol
buildings between the two.

Cactus wrens more common

Curve billed Thrasher " "

House Finch " "

Desert Sparrow " "

Journal

Borell
1964

Ojo de agua, 5200 ft. S. Chihuahua Mex.

May 2

Made a trip through the mesquites west ad north of camp (Gutiérrez house) and also to the marshy area. The mesquites are now in about in half-leaf. There is little other greenery among the mesquites. Catclaw is just starting to leaf.

Bird observations among mesquites

Townsend hawk - 1

Turkey Vulture - 2

Scaled quail one pair, ad one flock of 7.

Mockingbird, one pair.

Curve-billed Thrasher - 1

Brewer Sparrow - 30

White Crowned Sparrow - 30

Lincoln Sparrows - 2

Ash Throated Flycatcher - 2

Shrike - 2

Brown Towhee - 2

Phainopepla - 2

Cincloramphus warbler - 3

Wood Pewee - 5

Vermillion Flycatcher 5

Steppe Tanager 5

Journal

Borell
1964

Ojo Sagua, Chihuahua, Mex. El Paso

May 2 continued

Black-tailed Jack rabbit - 3, one female shot for the Gutiérrez family contained one large embryo. It moved actively and I suspect would have been born in about a week.

Marsh area: walked about two miles through the bested part of the marsh area.

Diaz Duck, saw eight. all were in pairs which would indicate that they are paired but that the hens are not yet incubating. When flushed (from very small pools) the hens quacked loudly about the same as the ♀ mallard. The drake has the low grating call of the drake mallard. One ♂ Diaz duck appeared to be mated with a ♀ mallard at least the ♀ was a bit smaller and considerably lighter in color than the other Diaz Ducks. How they will be able to raise broods with the scant bits of water here is a question,

Boell

Journal

1964

Mexico

Ojo Saguna, 5200 ft. el. Chihuahua.

May 9

Took a ~~trip~~ through the marsh, about the ponds, willows and cottonwoods and along the edge of the mesquites.

Bird observations

Purple Martin, 3 flying over a small pool. ♂ & ♀. First ones seen this year. None seen last year

✓ Phalarope (rufor) ♂ & ♀. Four on very small pool. They all were whirling about rapidly when I shot a ♂ & ♀ at one shot.

✓ chat one collected, the first this year

None seen here last year

Hermit Thrush, the third one seen this yr.

Orchard Oriole two ♂'s in cottonwood, willow and mesquite.

Wilson warbler - still the most common warbler but not abundant

Wilson snipe - 2

most are ♂

Boat tailed Grackle - 23 in one flock

Ruby Cr. Night - 1

Andover warbler - 1 ♀

Black & white warbler - 1

to sing

White Cr. Sparrow - 40 some beginning

Clipping Sparrow - 4

Borell
1964

Journal

Ojo de agua, Chihuahua, Mex, 5200 ft.
el

May 4

It is still staying cool. most days have been under 80° but at the moment (3pm) it is 85° - our warmest day. nights have been cool to cold - mostly 45 to 55° at 6 am. during the past week. winds have been persistent and frequently heavy.

Birds of interest

- ✓ Blue Grosbeak one ♂ first seen
- ✓ Black headed Grosbeak one ♀ the same or other ♀'s seen each day - no ♂'s.
- ✓ Yellow warbler first seen
- ✓ Verdin ♂ & ♀ just seen
- ✓ water thrush a lone bird seen several times today around the edge of a small pool. Again I failed to collect it finally got one at dusk.
- ✓ Bullock Oriole common. During the last few days nuptial displays have been observed. Two or more ♂'s are fighting for territory in almost every cottonwood
- ✓ Sazili Bunting ♂ first seen
- ✓ Orchard Oriole, two ♂'s in cottonwood
- ✓ Andubon warbler ♂ & ♀
- ✓ white crowned Sparrows - about 20 around camp. A few are beginning to sing

~~Pigmy marmoset seen on
waterfalls at very low stage.~~

Borell
1964

Journal

Ojo Saguna, Chihuahua Mex El 5200 ft

May 4 continued

Chipping sparrow 2

Summer? Tanager, Two ♂s in intermediate plumage (one collected) ad at least 2 ♀s.

Mourning doves, the large flock of migrating birds seem to have gone. The resident birds are Cooing and nuptial flights are seen.

Pine Siskin - about 15 about camp. There is no sign of nuptial activity. They are feeding on cottonwood seed and feed that I put out. They are very gregarious, as many as 7 or 8 frequently feed or drink within a square foot.

Wilson warbler - still common, mostly ♂s only a few ♀s seen. They are full of nervous activity ad forage in a wide range of niches from the top to the bottom of cottonwood, willow mesquite ad low shrubs. They also forage on the ground, about adobe walls ad at the water's edge.

Black & white warbler. One seen several times today. It forages up and down the trunks of cottonwood in the manner of a creeper.

Borell
1964

Journal

Ojocajuna El 5200 ft Chihuahua Mex
May 4 continued

Boat-tailed Grackle. Some nuptial display
in evidence but they still fly about
in groups of 7 to 10.

Yellow-throat - 10 mostly ♂'s.

Cassin Kingbird, common, as
yet no evidence of nesting. Frequently as
many as 20 come to roost each
evening in the big cottonwoods (4)
over our trailer.

Phalarope wilson 9 on same small
pool where two ($\frac{3}{4}$) were collected
yesterday.

✓ Lark Sparrow 3 (one collected) first seen

Borell

1964

Journal

Ojo La Junta 5200 ft. Chihuahua Mex

May 5

There is a small pool (ojo) about
beside our trailer.
~~20x20~~ feet. It is in the center of
 4 large cottonwoods and is surrounded
 by an adobe wall 3-4 ft high. The site
 is an attraction to birds but I
 have added to its attraction by
 putting out oatmeal, toast, fruit scraps,
 wheat and bird seed. The latter is
 cheap in Chihuahua. Yesterday I got the
 idea of putting a brush pile
 near the water and within good
 eye range of the adobe wall.

The brush pile definitely and almost
 immediately improved the site
 for collecting. Birds that formerly
 drank and left promptly or
 flew at the slightest disturbance
 now loiter around the brush pile
 or take refuge in it when disturbed
 - thus offering an opportunity to collect
 the desired individuals.

* over

The wind blew very hard
 last night and is still blowing -
 however the night was the
 warmest to date - 60° at 6:30 am

Bullock ad orchard orioles,
summer ad western tanagers
ad black-head grosbeaks fed
on papaya ad pineapple scraps.
White Cr. Sparrows, Lincon sparrow,
Sayoli finching, winter tanager,
Pine Siskin, Bullock oriole,
Richard Oriole, Clipping Sparrow,
Wilson warbler, Vermillion Flycatcher
wood Pewee, Hermit Thrush.
have already been seen in or
on the bush pile that was
established only yesterday.

Boddy
1964

Journal

Ojo Saguna, 5200 ft el. Chihuahua Mex.
May 5 Continued

Birds of note -

Blue grosbeak two ♂s.

Sazani bunting ♀

Orchard Oriole 2 ♂s - one collected

Riaza Duck - 9 in one flock

Blue winged teal 3 ♀ & 1 ♂. Two ♀s taken
for the pot. They were thin and show no
ova enlargement

Wilson Snipe - 2

Brewer Sparrow, numbers reduced,
but 4 seen in one bush.

western Tanager 2 ♂s & ♀, the ♂ collected.

Robin - 2

Girdled Sparrow - 1

Chipping Sparrow - 4

white winged dove - 1 just this year.

Borell
1964

Journal

Ojo de Agua, el 5200 ft. Chihuahua, Mex.

May 6

Still very windy but warmer
56° at 6:30 am. 88° at 3 pm.

Bird notes

Painted Bunting - 1 ♂ collected

Savile Bunting ♂ ♀ ♀

Indigo Bunting 1 ♂

Hooded Oriole ♂

Summer Tanager 3 ♀

Western Tanager 2 ♀

Orchard Oriole 2 ♂ 1 ♀

Phalarope, wilson, Ton same pool as yesterday

Blue Grosbeak 3 ♂

Black headed Grosbeak 4 ♂ 3 ♀

Audubon warbler 1 ♀

Wilson warbler 5 ♂, 3 ♀.

Yellowthroat 3 ♂ 1 ♀

White Cr. Sparrow - 30

Scaled Quail - heard mating call

Water Thrush Northern 1 ♂ collected

Hermit Thrush - 1

Pine Siskin 6

Wood Pewee - 4

Coot - 2

Brewer Blackbird - flock of 12

Borell
1964

Journal

May 7

Ojo La Junta, Chihuahua, 5200 ft up
Another very windy day 60° at 7 am.
Some bird notes.

Glossy Ibis, lone bird collected
in small marsh, first one seen.

Phalaropes - the small flock that has been
here since May 3 was not present
today

Blue winged Teal, shot ♂ & ♀ for the pot.
♂ was fat, tars 14 x 4. ♀ thin one not enlarged.

Coots - three in marshy area

Sharp-shinned hawk - first seen

Townsend warbler ♀ now seen so far.

No Siskins - the small flock that
has been around camp until
yesterday morning were not seen today

Wilson warbler, a few still
around - about $\frac{1}{2}$ females

Black-headed Grosbeaks ♂ & ♀ common
around camp

Blue Grosbeak 3 ♂ 1 ♀ around
camp

Summer Tanager 2 ♀

Western Tanager ♂ & ♀ common
around camp.

Orchard Oriole; adult ♂, Immature
♂ and ♀ common.

Borell
1964

Journal

Ojo Saguna, Chihuahua 5200 ft Mex

May 8

Cold, Cloudy, light wind, no tops rain
Temp. = 56° at 7 am. 76° at 3 P.M.

~~Fair American~~ Redstart one - collected

Yellow warbler - 2 ♂s

Sharp shined hawk - 1

Townsend warbler - 1 ♀

Andover warbler - 2

No pine siskin

Brewer Sparrow - 2, apparently
most Brewers have gone,

White Cr. Sparrow - 20

Rufy Cr. Flycatcher - 1

Wood Pewee - 2

Scalped Quail, ¹⁰ mostly in pairs, one pair of 4.
3 shot for the pot. 2 ♂s had enlarged testes,
& had enlarged ovaria but apparently not
yet laying.

Journal

Borell
1964

Ojocajuna, Chihuahua, Mex, 5200 ft

May 9

Mild, Calm, Cloudy day
Temp 62° 7:30 am.

Because of a lame knee stayed around camp all day

Bird notes

✓

Cedar waxwing - 2 just seen

Black throated gray warbler, just seen, collected

Orange Cr. warbler - 2, one collected for identification but not saved. This warbler has been seen (102 individuals) almost every day.

Virginia warbler - 3 one collected - first seen this year (not saved)

Townsend warbler ♂ 2 ♀

Mac Gillivray warbler - 1

No siskins

Wilson warbler - common, eight seen at one time, apparently a new flight has come in, about $\frac{1}{2}$ are ♀.

Summer tanager 1 ♀

Western " 3 ♂

Chipping Sparrow, has been common about camp, to-day only two. Apparently most have left.

Rudulson warbler ♂ 2 ♀

Journal

Borell
1964

Ojo Saguna, 5200ft, Chihuahua, Mex

May 10

A beautiful day - little wind
Took a 2 mile hike through the marsh
and mesquita and catclaw.

Catclaw about $\frac{1}{4}$ in leaf. Mesquita
now almost in full leaf - many
in bloom or just bloom.

The general tone of the sacatones
here is "dead grass" - not enough green
to noticeably change the color

Bird notes

Diaz ducks - one pair, 2 lone ♂ -
possibly the ♀ are flying to lay

✓ Spotted sandpiper, first one seen here
Wilson snipe, one - collected, proved
to be a ♀ fat, ova 2 X 2.

Pipit - 3

Tar sparrow 2 pairs

Raven - 8

Mockingbird - 3

Coots - 2

Indigo bunting - 2, one ♂ was intermediate

Black headed Grosbeak 4 ♂ 2 ♀

Borell
1964

Ojo Saguna, 5200 ft Chihuahua, Mex.

May 11

Cold night, clear calm morning
44° at 7 am.

went to Chihuahua.

Birds noted before we left at 9:30 am.

Clipping Sparrow - 1

Orchard Oriole - 3♂

Bullock Oriole - common, one ♀ gathering nesting material - saw no territorial squabbles yesterday or this am.

Western Tanager 4♂ at one tree on the brush pile under which we have pineapple trimmings. Saw only one ♀.
Yellow warbler 2♂ singing, one ♀.
White Cr. Sparrows - 20 around feed area some singing.

Wilson Warbler - 4, number is down

Townsend Warbler - 1

Barn Swallow 2♂ came to our pool side to gather nesting mud.

✓ Bronzed Cowbird 1♀ saw it at close range with binoculars. noted its larger size & red eye, also saw it inspect a ~~bullock~~ [♂] Bullock Oriole (partially completed) nest. It departed before I got a shot.

Black-headed Grosbeak 3♂ 1♀

Journal

Borell
1964

Ojeda junta, Chihuahua, Mex 5200 ft

May 12

Returned from Chihuahua at
5 P.m.

White Cr. Sparrows are as
numerous around camp as ever
Hermit Thrush - 1
waterthrush - 1 collected.

Audubon warbler - several ♀

May 13

Cool windy day - 56° F at 7 a.m.
Took a two mile hike through
the marsh ad mesquite.

Biologically it has been a quiet
day.

Solitary sandpiper - 1

Chipping Sparrow - 1

Brewer Sparrow - 0

Black headed Grosbeak were common
about our feeding area (4 or 5 in
sight most of the time on May 10 and 11).

To-day we have seen none

Blue grosbeak - 1

Inca dove 1♂ coming

Western Tanager - 6

Townsend warbler 1

Audubon warbler - 4 ♀ in sight
at one time - this is a definite increase.

Borell

1963

Journal

Ojo Sa Juna, Chihuahua, 5200 ft. Mex.

May 14

84° 7 at 7 P.M.

Cloudy windy night. Cloudy, hazy and reasonably calm day 60° 7 at 6:30 am. Birds were active this morning, much singing, bathing and courting antics. Courting especially pronounced by Orchard Drools, must be near peak of courtship. Birds around the waterhole and feed area

Warbling Vireo - 5, more than seen before (1 collected)

* Virginia ~~Cold~~ warbler - 2

Orange Cr. warbler, collected but not saved.

Audubon warbler - 1 ♀

Wilson warbler - 3 ♀, 1 ♂

Yellowthroat 1 ♂

Yellow warbler 1 ♂ 2 ♀

Mac Gillivray warbler 1 ♀

Western Tanager 2 ♂

Black headed Grosbeak - none

Blue Grosbeak 1 imm ♂, 3 ad ♂, 1 ♀

Sazuki Bunting ♀ collected

- Indigo Bunting - 1 ♀

Common Redstart 1 imm ♂

Modest Flycatcher 2 ♂ singing

Borell
1964

Ojo de Agua, Chihuahua, 5200 ft. met

May 14 continued

white Cr. Sparrow 20 - considerable singing
Chipping Sparrow 18 1♀

Bullock's Oriole - 2 ♂, 2 ♀, 1 imm. ♂. Considerable singing, little squabbling, apparently nesting territories have been established.
Grackles, Boat-tailed, 7. Grackles. Do considerable calling and "singing" but still go about in groups of (♀ & ♂) 5 to 9 and I have seen little mutual displaying.

wood Pewee - 2

Vermilion Flycatcher ♂, ♀, ♀.

Dowitcher, long-billed - 1

Ring-necked Pheasant ♂, pair, ad group of two ♂ 1 ♀.

Coot - 3

Redwing Blackbird - 1♂

Kildeer - 2 pers. excited when I approached

Lark Sparrow 2 pers.

Savannah Sparrow - 3

Swamp Sparrow - 2

Marsh wren - 3

Plover? - group of 18 flying south

Say Phoebe none

Journal

Borell

1964

Ojo Saguna, Chihuahua, 5200 ft. el Mex.

May 14 Continued.

It remained mild and hazy all day with only mild wind.

At 4:30 p.m. I encountered the first rattlesnake of the year. It was a large (4 ft) heavy bodied snake. It was in a little path that leads around one of the ponds. The unusual spot was between a willow and cottonwood with water and sedge on both sides of it and sacaton on the other two sides. It was olive gray in color with large diamonds, had ten rattle segments and had just eaten a cotton rat.

Last year (1963) by apr 25 Mr. Gutierrez had killed two rattlesnakes and I had killed two. The one today is the first that either of us has seen to date this year. Also is a mile walk along a dirt road I encountered the "tracks" of four snakes of unknown identity. These are the first snake tracks observed this year. Snake tracks were common place prior to apr 25 in this location last year.

Borell
1964

Journal

Ojo Sajima, 5200 ft. Chihuahua, Mexico

May 15

warm day, light wind, cloudy in am.
60° at 6:30 am

Tried the marsh in evening. most
of the day around camp.

Birds of note -

white throated Sparrow 1♂ collected
this is the second one seen.

Black-headed Grosbeak - none

Blue Grosbeak - none

Western Tanager 3 ♂

Barn Swallow - 10

Cliff Swallow - 30

Rough winged Swallow - 30

Purple Martin - 2

Wilson Warbler - 2 (going down)

Warbling Vireo - 8

Cinnamon Teal ♂ ♀

Gray duck 1 pair one extra ♂

Killdeer 2 juv. disturbed by my presence

P.W. Blackbird 2 singing males.

Lincoln Sparrow 1

Tanage summer - (collected)

Scaled quail, a pair came to drink
at our pool. They both drank repeatedly.
These are the first quail to come to our
pool at camp.

Journal

Borell
1964

Ojo Laguna, Chihuahua, Mex. 5200 ft. el.

May 16

Mild day, wind medium, ~~temp~~ ^{7 am.} 62° at 8^{am}
Bird notes ^{90° at 2 pm.}

Painted bunting 2 ♀ (green)

Blue grosbeak - 1 ♂

Western Tanager 1 ♂

Black headed grosbeak - none

Wilson warbler - 1

Virginia warbler, 1 collected but not sexed

Mac Gillivray warbler 2 ♀

Yellow warbler - 5 ♂ and ♀

Yellowthroat - 1 ♂ apparently the same one
Lincoln Sparrow - come down pool every day.

White Cr. Sparrow - 20 around camp.

Orchard Oriole 2 ♂ 3 ♀ around camp.

Bullock oriole 3 ♂ 3 ♀

" "

Journal

Borell
1964

Ojo Laguna, Chihuahua, Mex. 5200 ft. el.

May 17

Blustery last night, a few drops of rain,
a few showers in vicinity, some
thunder & lightning. 60° at 6 am.

Bird notes.

little change from past few days.

White Co. Sparrow - 25 counted 17 in one group.

Brewer Sparrow - 2 (one shot but not preserved)

Lincoln " - 1

Painted bunting 1 ♀

Cuckoo (^{sp} ~~sex~~ ?) one heard

Wilson warbler - 2

Audubon warbler - ♂ & ♀

Yellow warbler 2 ♂ 3 ♀

Yellowthroat - ♂

Blue grosbeak 1 ad ♂ 1 imm ♂

Black headed grosbeak 1 ♀, 1 ♂

Western tanager 1 ♂ 1 ♀

Orchard Oriole common in mesquites and
abund cottonwoods. At least two pairs, possibly
three pros. trying to establish territories in the
four cottonwoods around our trailer. watched
♀ followed by ♂ carrying carefully selected, scattered
grass fibers (6 in long) to a partially completed
nest in the pendant branches of a cottonwood.
nest is 15 ft from the ground.

Borell
1964

Journal

Ojolagua, 5200 ft Chihuahua, Mex

May 18

Mild, sunny morning, cloudy and windy in the afternoon with a few drops of rain. No measurable rain since Apr. 21 - very dry, all springs flow and wet areas decreasing

Bird notes

Cedar waxwing, f., collected

Yellow-billed cuckoo, 1, collected

Wilson warbler - None

Western Tanager 1♂

Painted Bunting 1♀

Blue grosbeak 1 imm. ♂

Brewer Sparrow - 1

Lincoln " - 1

White Cr. Sparrow still about 15 around camp.

wood pewee - 2

Audubon warbler - 1♂

yellow warbler - several ♂ & ♀

ash-throated flycatcher - 4.

Summer tanager - 1 imm. ♂

yellow breasted chat - 1

Boell

1964

Ojo Laguna, Chihuahua, 5200 ft. d. Mex.
May 19.

Cool sunny morning, cloudy & wind
in the afternoon 54° at 6 am.

Took a trip through the
mesquites.

Scaled quail - 20. all in pairs
Since no lone ♂s were seen
I suspect that the ♀s are laying
but have not started incubation.

Blue grosbeak, 2 ♂s pursuing one ♀
Black-throated Sparrows - 2 pairs

Mocking bird - 5 singing, presumably ♂s.

Brown headed Cowbird 2 ♀ 3 ♂

Wilson's warbler - none

Black headed Grosbeak - none

western tanager - none

Jackrabbit - 3 adults, one $\frac{1}{3}$ grown.
The first young one seen this year.

Borell
1964

Journal

35

Ojocajuna, Chihuahua, Mex., el. 5200 ft.

Summary of observations - Prepared May 17-
April 21 through May 20 1964

Spring is late, cold, windy, dry.
Our trailer has been parked the entire time under a clump of 4 cottonwoods, beside a small pool. The pool, about 25 ft in dia. when full is now down to 16 feet. It is maintained by a spring. The site is ideal for this part of the country. It is on the exact margin between the mesquite-catclaw slope and the ^{monster} sacator flats. Our pool and group of cottonwoods is the last permanent water ad cottonwoods between the sacator flats and the wide slope of mesquites, catclaw and dry grass land that ~~extends~~ extends from here to the base of the Sierra del Rido, about 6 miles (guess) we are at the south eastern edge of the old town of Ojocajuna, which now consists of about 20 house ruins, several with standing walls, and one home occupied by Cresencio Gutierrez and his family. Gutierrez has about 30 head of very poor herdsad. Cows, one Angus bull, 4 mules, 1 horse, 14 chickens, and 12 pigeons. He raises about 5 acres of corn in a

Journal

Borell
1964

Ojo Laguna, Chihuahua, Mex. 5200 ft.

Territory Continued

field that he plowed out of the sacator, within an area about 2 miles long ad a half mile wide in the upper (west) edge of the sacator are about 30 small springs (ojos). about ten of these have been dug out & form small pools. Most of them have hand dug ditches designed to "irrigate" the pastures. Two of the largest are used for meager irrigation of corn on the Gutierrez farm and a similar corn field on the next farm north.

Around the Gutierrez house ad several of the casa ruins are introduced trees such as, mulberry, tamarisk, tree of heaven, bird of paradise (funk), peach, and one black locust. The only native trees appear to be Cottonwood, willow ad mesquite.

The Estación de Ojo Laguna is on the El Paso-Chihuahua Railroad about 5 miles east (slightly south) of old Ojo Laguna.

On April 21 this year there was considerably less surface water than when we left here on April 25 last year (1963).

Journal

Borell
1964

Ojo Laguna, Chihuahua, Mex. 5200 ft.

Summary Continued

Bird notes April 21 — May 20 1964

Blue heron one seen at Flores Magón
on the Santa Clara, apr. 24

Green Heron, one seen and collected
at Flores Magón on Apr. 24
white faced glossy ibis, only one
seen, collected, May 7

Coots, at least 3 still present on
the ponds, no evidence of courting or nesting.

Diaz duck, about 8 here, lone
to indicate that laying and perhaps
nesting has started. One ♂ diaz
duck appeared to be paired with a
Mallard ♀ along the Santa Clara
at Flores Magón. There are likely
more diaz ducks than here. At that
location one ♀ appeared (April 24)
appeared to be paired off with a mallard
drake.

Journal

Borell

1964

Ojo Laguna, Chihuahua, 5200 ft.
Summary Apr. 21 - May 20 Continued

Green-winged teal, a few individuals seen here and at Flores Magón
Blue-winged teal, a few individuals seen here and at Flores Magón. One pair [&] were still here on May 15
Shoveler, a few here and at Flores Magón

Mallard, one ♂ at Flores Magón on April 24 and one ♀ here on May 2
Turkey Vulture 1 & 3 seen almost every day

Sharp-shinned hawk one individual seen or two occasions.

Saw-whet Hawk one or two seen almost every day.

Harris Hawk, one seen on April 24 & ^{24.}

Marsh Hawk, one or two seen over the marsh almost every day

Sparrow Hawk, one or two seen on several occasions

Scaled quail, common but not so numerous as last year. All are in pairs now and are apparently either laying or ~~nesting~~ incubating.

Journal

Borell
1964

Ojo Laguna, Chihuahua, Mex. 5200 ft. el

Summary Apr 21-May 20 - Continued

Killdeer always present in suitable marsh areas, now apparently nesting. Probably 6 pairs within a mile of camp. Wilson's snake, common in marshy area, remained at least until May 10 when one was collected.

Long-billed Curlew, group of 7 ten miles w. of El Suizo on Apr 24. Spotted Sandpiper, one here on May 10 one at Flores Mayor on Apr 24. Solitary Sandpiper, one collected Apr 26.

Lesser yellowlegs, one collected May 3. Least Sandpiper singles and small groups seen about a small pool for a few days beginning May 3.

Western Sandpiper - same as for Least. Towhee, long-billed, one (collected) May 14. Wilson phalarope 4-9 seen on small pool May 3-6. Gone on May 7.

White-winged dove, only two individuals seen. Mourning dove common to abundant migratory flocks left ^{shortly} before May 4. Many pairs are now seen in courtship flights and the cooing is heard daily.

Borell
1964

Journal

Ojo Laguna, 5200 ft Chiapas Mex.
Summary April 21 - May 19 Continued

Mia Dove, three lone birds here,
common along the Santa Clara from
Flores Mayor to San Lorenzo.
Cuckoo, ^{yellow bellied} ~~spotted~~ heard twice May 18.
Roadrunner, a few seen here
and at Flores Mayor. There has been
less "cooing" this year than last.
Barn Owl, several individuals
(or the same bird seen several times).
No mating calls around camp as was
the case last year ^{and flushed one from} ~~a cottonwood on~~ May 19.
Horned Owl, heard at camp one night.
no other owls seen or heard.

Poorwill, one heard, near camp
Lesser Night Hawk, were common on
April 21 and still are.

Hummingbird, broad tailed, one collected
few others heard. *

Red-shafted Flicker, one on several
occasions, noise incessantly.

Saddled backed woodpecker, one or two
individuals seen around one
group of cottonwoods & willows. Not
common.

Journal

Borell

1964

Ojo Laguna, Chihuahua, Mex. El 5200 ft

Summary Apr 21 - May 20 Contained

Cassins Kingbird, common, but not so abundant as it was two weeks ago.

Black phoebe, one at Flores Mayor or Apr 24. None here

Ash-throated Flycatcher, common among mesquites here and about Flores mayor

Wood Pewee, common, still present

Empidonax, several of this group seen - not common - ~~except~~ ~~here~~.

Say Phoebe, very few seen, not so common as last year.

Horned Larks, few seen, I collected.

Violet-green Swallow - Common - still here

Rough-winged Swallow - Common - still here

Cliff Swallow, common, still here.

Barn Swallow, common, two nests in the Gutierrez barn, one with 5 eggs and one with 1 egg on May 16.

Journal

Borell
1964

Ojo Sajma, Chihuahua, Mex 5200 ft.

Summary Apr 21-May 20 Continued

Purple Martin, 2 or 3 birds seen on
three occasions

Raven, probably common & white-necked -

common, 2 to 10 seen every day

Verdin, few among mesquites, not common

House Wren, one collected Apr 27.

Marsh Wren, a few at least suitable
marshy area

Cactus Wren, common in the

cactus area from Flores Magón to
San Lorenzo. Very few here at Ojō.

Mockingbird, common here and
at Flores Magón. Here they are
usually seen in pairs (now) and
are in full song.

Curve-billed Thrasher, common

Flores Magón to San Lorenzo. A few
here at Ojō.

Rosin, several lone individuals
seen here. One singing in Cottonwood
over camp this morning.

Hermit Thrush, 3 or 4 lone
individuals around camp.

Ruby Cr. Night, several seen

✓ Cedar waxwing, two seen in
Cottonwood near pool on May 9, one ^{one}

collected May 18. in a mulberry tree. Internal examination indicated that it had been feeding heavily on the mulberries that are just beginning to ripen. They are the small blackish variety.

Borell
1964

Ojolaguna, chi huahua, 5200 ft. el. max
Summary April 21-May 20 continued
Pipit, saw several each day
 in the wetlich areas. The left
 about May 13, none seen the last
 few days.

Zrike a few present throughout the period.
Solitary Vireo, 1 to 5 in cottonwoods
 about camp each day. None seen
 the last few days

Warbling Vireo - were abundant around
 camp for a few days begin May 14
 only one seen yesterday, none today - May 19.

Orange crowned Warbler, a few
 around camp until at least May 14
 when one was shot to verify visual
 observation.

Virginia warbler, one or two around
 camp each day until at least
 until May 16 when one was
 shot to verify identification

Yellow warbler, first seen on May 4,
 the Es have been common since
 and are still here. Considerable singing.

Journal

Borell
1964

Ojo Sagua, 5200 ft Chihuahua, Mex.

Summary of observations

April 21 - May 20 Continued
Waterthrush, northern, several seen on the same ones seen on several occasions around the pool in camp, 3 collected. none seen after May 12.

Mac Gillivray's Warbler, not uncommon from Apr. 21 through May 16, none seen the last few days.

Yellowthroat - common about wet areas throughout the period still present.

Yellow-throated Chat, a few were here at least from May 3 to May 18.

Wilson's warbler abundant from Apr. 21 until May 11 when I recorded only 4 around camp and noted the decline in numbers. None seen since May 18. In April most of those observed were males. As the ♂'s began to leave the ♀'s arrived. On May 7 I recorded that about half of those present were ♀'

Journal

Borell
1964

Ojo Sa Juar, Chihuahua, 5200 ft Mex
Summary - Apr 21 - May 20 Continued

American Redstart. - 3

Black-throated Gray Warbler 1

Audubon Warbler, common from apr 21
here and at Flores Mayor, last recorded
on May 18

Black & white warbler - 2

Townsend Warbler, 1 to 3 each day
from May 2 through at least May 12

Meadowlark, common in all
grassy areas. Now all in pairs.
Their songs indicate that all the
nesting birds that I have encountered
are Eastern.

Red Winged Blackbird, since the migratory
flocks left in early May redwings
are not common. I know of
only 3 singing ♂'s. Of course the
marsh situation is not good this year.

Boddy
1964

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Season any-Apr 21—May ²²/₂₀
continued.

Ojo de Junco, Chihuahua, 5200 ft Mex.
Orchard Oriole, arrived in early May
and have been common since, at least
two pairs are busy with nest building
in the cottonwoods around camp. There
seems to be little conflict between
the Orchard Orioles and Bullock orioles
that are nesting in the same cottonwood.

Brewer's Blackbird, several migrating flocks
were seen until early May. None
are here now.

Boat tailed Grackle, have been common
since Apr 21 but have been seen ad less
less the last few days.

Brown headed Cowbird, common since
Apr. 28 when the first one was seen

Bronzed Cowbird, ♀ seen on May 11, ♂
collected on May 17

Western Tanager common from May 5
through 15. Only stragglers since then

Journal

Borell
1964

Saturday Apr 21 May 20 Continued

Ojo Laguna, Chihuahua, 5200 ft, max.

Summer Tanager, one or more seen almost every day since apr. 21, all have been ♀ or imm. ♂. no adult ♂ seen.

Pyrhuloxia, Probably three pairs within a mile of camp.

Black headed Grosbeak, first seen apr. 30, was common until May 10. Since then only stragglers.

Blue Grosbeak, first seen May 4, common around camp for several days. Now only an occasional single bird seen here. Those seen ^{together} in the mesquite this morning may indicate nesting?

Indigo Buntings, single males and ♀ seen on 3 or 4 occasions.

Painted Buntings, several ♂ & ♀ seen beginning May 6. One ♀ still present (May 19)

Journal

Summary Apr 21 - May 20 Continued

Borell
1964

Ojo Sapua, Chihuahua, 5200 ft. Mex

Gazuli Bunting several ♂ & ♀ seen
around camp between May 14-18.

House Finch, not so common as last
year, only a few individuals seen or
heard here, was common at Flores Major

Pine Siskin abundant ~~longer~~ when
we arrived on Apr. 21. They remained
common around camp until early
May when the population declined. On
May 6 I recorded 6. After that only one
or two stragglers were seen or heard.
Pigmy Nuthatch one seen on Cottonwood May 20
Lesser Goldfinch, very few. None now

Green Tailed Towhee, few, none now

Brown Towhee, far less common ^{than last}
year. Only an occasional one seen here
this year. Several were seen at Flores
Major.

Sparrow Bunting, several seen along the
road. More recently

Borell
1964

Journal

Summary Apr 21 May 10 contained

Ojo Saguaro, Chihuahua, 5200 ft Mex.

Savannah Sparrow, Several in the marshy area. More now.

Vesper Sparrow, one collected Apr 29

Sora Sparrow. First ones seen on May 5, several pairs seen since

Black Throated Sparrow, 2 or 3 pairs in the mesquite. None around camp as they were last year

Juncos (gray headed) only 2 seen.

Chipping Sparrow, common from Apr 21 until early May. None seen for the past few days.

Brewer Sparrow, common from Apr 21 until early May when there was a sharp drop in population. Now only stragglers. One seen May 18.

Bordell
1964

Journal

Summary Apr 21-May 20 Contained

at Sajara Chimalhua, 5200 ft. Max
White Crowned Sparrow, a flock of 20-30
has been around camp since apr 21.
I am surprised that there still is
(may 19) at least ten here. They are doing
a lot of singing and should be on their
way.

white throated Sparrow. 2 seen & collected
Lincoln Sparrow, a few present since
apr 21. At least one is still here (may 19).

Swamp Sparrow, one collected may 6.

Journal

Summary April 21-May 20 Continued

Borell
1964

Ojo Saguna, 5200 ft, Chihuahua Mex

Mammal notes.

Coyote, I believe they are not so common here as last year. Saw two together, the only ones seen. Heard them barking on three different nights. Few tracks seen.

Raccoon. Less common than last year. Saw only one set of fresh tracks and caught ~~that~~ individual, an adult pregnant ♀, the next night. I maintained a bait station along one of the main trails in the marsh but only this one stopped there during a three weeks period.

Skunk. Less common than last year. None seen, none stopped at the bait station and very few tracks were seen.

Bobcat - no tracks seen.

Black bear, see notes for May 1

Mule deer, see notes for May 1.

Journal

Borell
1964

January Apr 21 - May 20 Continued

Ojedajuna, 5200 ft. el. Chihuahua, Mex
Peromyscus, less abundant than
in 1963. No formal trap lines were
run but last year and this year
traps were kept set in favorable
places to keep mice out of camp
supplies. Last year I felt that the
population was greater and the
supply more inexhaustable than
in any place that I was ever in.
Last year my traps continued to
catch peromyscus throughout the two
months we were here. The traps were
set in the same spots night after
night. This year camp is in
exactly the same spot and many
of the traps are along the adobe
wall and beside the trailer trees where
they were in 1963. This year Apr 21 -
May 20, ten traps caught 2 or 3
peromyscus each night for the
first week. During the past three
weeks the catch of peromyscus has
averaged 3 per. week from the ten
traps. Most of them were adults,
very few of the ♀'s were pregnant.

)

Borell
1964

Summary Apr 21 - May 20
Journal. Continued

Ojo de agua, Chihuahua, Mex
Cotton rats. Last year I saw
 cotton rats on almost every trip
 through favorable signedor habitat.
 Sign was everywhere including grassy
 areas among mesquite. This year
 I saw only one signedor and
 fresh sign was absent most places
 examined.

Kangaroo rats signs appeared about
 as last year.

Lepus californicus, saw more
 this year than last year - about
 3 times as many. A ♀ killed on
 May 2 contained one embryo. One
 young, $\frac{1}{3}$ grown, was killed on May
 19. These others killed for the Gutierrez
 family were in good shape, 2 ♂, 1 nonpregnant ♀

Lepus gilliardi - none seen in
 the vicinity of camp. I did not go
 to the playa area where I saw
 one ad signs of others last year.

Borell
1964

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Journal

Summary Apr 21 - May 20 Continued

Ojo Sayana Chihuahua, Mexico

Sylvilagus, appears to be a bit more numerous than last year. Four seen during the month.

Bats, not common, one myotis and one red bat collected. On many cool evenings no bats were seen.

Rock Squirrel, two seen in the vicinity of Flores Major, none here

Citellus spinosus, 5 seen here during past ten days.

Cratogeomys, sign about as last year, one specimen taken. Most workings are in hard soil among sacator.

Neotoma, sign about as last year. one ad. pupment & collected

Journal

Borlll Summary - Apr 21 — May 20. Contuned
1964 Ojo La Juna, Chihuahua, Mex.

Reptiles were not common in 1964³ (Feb 28 to apr 25) however even by apr. 25 they were more numerous than 1964 up to may 21.

Pitvessnake, one killed may 14. only one seen. none seen by Mr. Gutierrez. Last year he ad I had killed 4 before apr. 25.

Other snakes. one gopher snake smashed on highway near chihuahua on may 12. No other snakes seen and very few "tracks" seen even though I have walked several miles along the dirt roads where tracks were common by apr 25 last year.

Lizards, a few whistlers seen, 2 collected only 2 or 3 Sceloporus seen, no other lizards.

Toads - none

Frogs - a few in ad about the ojos.

Turtles. abundant in the ojo pools.

Journal

Borel
1964

Gó Laguna, Chihuahua, Mex.

May 20

worked around camp getting ready to leave

May 21

Cut mesquite along the road on which we take our trailer when we leave.

at 11 am was bitten three times on the inside of my left leg, the six inches above the knee by a black widow spider that had crawled up my trouser leg.

Continued to work but was very weak all afternoon.

May 22

unable to work, stayed in bed all day. Headache, nausea, pains in stomach, chest, pelvic region, knee, ankle. Short of breath and dizzy. Diaphoresis very uncomfortable. Temp. $102^{\circ} +$

Journal

Borell
1964

Ojo Laguna Chihuahua to
Villa Ahumada

May 23

Still have all symptoms
and discomforts of yesterday
but feel a bit stronger.
With Marquita's help was
able to pack up and haul
the trailer about 100 miles
where we spent the night at
the Pemex station at Villa Ahumada

May 24

Another bad night but I
was able to drive to
Pas Cruces New Mex. Still
same discomfort. Body temp 102°
phoned a doctor who said there
was nothing he could do
after 4 days.

May 25

Drove over to Albuquerue
still feel about the same
but stronger and less
headache. will stay here a
few days before we go to Denver

Journal

Borell

1964

Ojo Laguna, Chihuahua Mex
Nov 11

Left Albuquerque, New Mexico
8 a.m. with G M C suburban
and Airstream Trailer. J G Barnesberger
and E. A. Duell, both of Albuquerque,
are my companions. Reached
El Paso Texas at 4 P.M. Spent
the night in the El Rancho Trailer
Park.

Nov 12

Spent all day getting Texas
"Import Permits" in case we want
to bring any game home with us,
getting checked through customs;
getting Mexican hunting licenses
and trying to get Mexican
gun permits. We almost
made it but reached the
military post office at 2:15 P.M.
and found that the offices close
at 2 P.M. - so we must wait until
tomorrow. Spent the night with
our trailer in the big paved
parking lot of the Juarez
Customs station.

Journal

Borell

1964

Ojo Saguna Chihuahua Mexico

Nov. 13

Got final approval on our guns from the military and left with our trailer at 10:30 am. It is a beautiful day.

Reached Ojo Saguna at 4:30 P.m. Parked our trailer under the cottonwoods near the house of Senor Cresencio Gutierrez where we worked during the spring of 1963 (March-April) and again in April and May of 1964.

As we drove into the Gutierrez yard we saw three Gambel quail about 50 yards from the house. These are the first Gambel quail that we have seen anywhere in Chihuahua. The birds were feeding under heavy mesquite growth near the road. Didn't want to shoot so close to the Gutierrez house - at least not before we checked in with the family.

Borell
1964

Journal

Ojo Saguna, Chihuahua, Mexico
Nov 14

Spent most of the day hunting for the Gambel
gravel that we saw yesterday
but no luck.

Learned from Senor Gutierrez
that there has been little rain
for the past year. Most of
the shallow watered areas at
the ojos that provided so
many birds during the past
two springs are dry or almost so.
Cattle are in poor condition - some
have died. The weather is
warm and windy. Willows
and cottonwoods are yellow
but still have most of their
leaves. Mesquites have most of their
leaves - still green. Leaves are
gone from the catclaw. Grass
and forbs are mostly dry.

Checked all of the nearby ojos that
have water. Saw no ducks
and no shore birds except wilson
sage and billdeer.

Journal

Borell
1964

Ojo Sagua, Chihuahua, Mexico.

Nov 14 continued

Birds seen

Ducks none

Sandhill (Little Brown) Crane - 7

Sparrow Hawk - 2

Red Tailed Hawk - 1

Marsh Hawk - 2

Sharp shinned (cooper?) Hawk - 1

Wilson Snipe - 4

Killdeer - 1

Mourning Dove - 10

Roadrunner - 1

Swallows - none

Mexican Woodpecker - 2

Red shafted Flicker - 1

Marsh wren - 1

Verdin - 2

Shrike - 2

Curve billed Thrasher - 1

Andover Warbler - 3

Brewer blackbird - 300

Boat tailed Grackle - 280

Horned Lark - 10

Chestnut collared Longspur - 20

Red backed Junco - 6

Journal

Borell
1964

Ojo Saguna, Chihuahua Mex

Nov 14 Continued

Brown Towhee - 2

Serranial Sparrow - 10

White Crowned " - 12

Black Throated " 2

Raven - 1

Brewer Sparrow - 9

Meadow Lark - 3

Snow goose - small flock flying south

Mammals

Coyote - tracks common - heard last night.

Raccoon - tracks common

Jackrabbit (Calif) - 1

Cottontail - 4

Nov 15

Hunted for Gambel quail - no success

Saw 10 scaled quail

Nov 16

Still can't find the other Gambel quail seen on Nov 13. Scaled quail scarce. Bonnerberger, Duell ad I saw only 6 today.

Sandhill (little Brown) crane - 8

No birds not recorded on Nov 14

Journal

Borell
1964

Ojo Saguna, Chihuahua, Mex.
Nov 17

Made a round trip to Ricardo Flores Magón ad located a site where we can park our trailer. The new presa (dam) four miles above Flores Magón on the Rio Santa Clara is almost completed. The gates were closed in ~~August~~^{Aug}. about 200 acres (surface) of water are backed up behind the dam.

About 50 coots ad 200 ducks on the lake.

Back at Ojo Saguna -

A flock of about 50 sandhill cranes circled over the dry lake bed and headed south.

Nov 18

Drove to Chihuahua

Nov 19

Returned to Ojo Saguna from Chihuahua at Km station 1700, 6 1/2 Km. south of our camp saw 4 Black Vultures with 2 Turkey Vultures feeding on the carcass of a dog. During

Borell
1964

Ojo Saguna, Chihuahua Mex

Nov 19 contained
the many traps that I have
made along this road during
sporadic late Feb. though early May
in 1963 and 1964 I have not
previously seen a black vulture
north of Chihuahua.

In the evening again hunted for
the Gambel Quail saw one running
under heavy mesquite but failed to
collect it.

Between Nov 14 ad 19 we took
"for the pot" 12 scaled quail near
our camp at Ojo Saguna. The crops of
all of these contained grasshoppers, the
largest number was 15. In addition
most of the crops held a few seeds
and bits of green vegetation.

During this period we took "for the pot"
14 mourning doves. The crops of
most of these held seeds and one
or more kernels of corn from
a nearby unharvested field.

Cottontails - 5. - Not abundant but
much more common than during
the spring of 1963 or 1964.

Journal

Borell
1964

Ojo Saguna, Chihuahua, Mex.

Nov 20

Horned Owl - heard one last night
Golden Eagle - one circled over camp at 7 a.m.

Packed up and left Ojo Saguna at 10 a.m.

3 P.M. Reached camp at the community of La Lajas, 6 miles by road above Ricardo Flores Magon. (El Carmen on some maps). La Lajas was a scattered community on the Rio Santa Clara. Now the lake formed above the new presa has forced most of the people to move to new locations - some to San Lorenzo. When they moved they took the doors, windows and vegas from their adobe homes. Some hauled away the adobe bricks but the adobes of most houses (walls) are still standing. The lake (# Sago La Lajas is now about $\frac{1}{3}$ full. When it fills many

Journal

Borell
1964

Lago Las Pajitas, Rio Santa Clara, El. 4900 ft
Chih. Mex.

or 20
continued

more families living in the river bottom above the Presa will have to move. The river bottom now being flooded as well as the valley floor for several miles above and below the new presa is divided into numerous small farms. These farms raise cotton, corn, chili a few vegetables and a little alfalfa at present the flooded corn field in the upper end of the lake provide feeding grounds for ~~coots~~ and ~~ducks~~. The new lake is providing a ~~deep~~ water environment not previously present in the Sierra del Rido area. The dam was far enough along to close the gates this past August. The Rio Santa Clara is now discharging a relatively large flow into the lake. There is enough flow that even with hip boots I have to look for a favorable crossing.

* Elevation obtained from Ernesto Montes Mayor, engineer at the presa.

Borell
1964

Journal

Nov 20

Lago Las Pajaz

El 4900 ft

Elevation obtained from
the engineer (Emilio
Monte Mayor) at the presa.

Ricardo Flores
^{magon}
(El Cañon)

Farm lands
morning 8:00 am

Reported
as follows:

Presa

Present shape of
Lago Las Pajaz. Possibly
200 surface acres now, about
 $\frac{1}{3}$ full.

Steep rocky hills
Covered with low brush

Camp

River bottom and
mostly willow
cottonwoods

Farm lands

Rio Santa Clara

Cottonwoods and willows
along the river and scattered
among the farmlands and in the
upper end of the lake

Some rocky hills, mostly with

Gentle slopes covered with low brush and
some grass. The flats are covered with cholla,
mesquite, prickly pear, and some green

Borell
1964

Journal

Nov 21 Las Pajitas Chihuahua Mex.

Did a bit of exploring around the lake then drove up the Rio Santa Clara to San Lorenzo.

Birds seen between camp and San Lorenzo

Quail - None

Mourning Doves - 10

Inca Doves - 6

Curve-billed Thrasher - 4

Brown Towhee - 6

Linnet - 15

Cactus wren - 8

Black phoebe - 2

Say phoebe - 4

Rock wren - 2

Sparrow hawk - 1

Red-tailed hawk - 1

White Crowned Sparrow - 3

Journal

Borell
1964

Sago Las Lajas, Rio Santa Clara, El 4900 ft
Chihuahua, Mex.

Nov 22

Hiked around the upper end of the lake.

Birds seen

Mallard - 20 - Two ♂ shot (not saved)

Ring duck - 20 - one shot. one ♂ weighed 1051 g.

Green winged teal - 40 - 8 shot not saved

Cinnamon teal - 1 - shot "

Spoonbill - 6 - 1 shot "

✓ Ruddy duck - 20 Two taken one saved

✓ Buffle head - 2

Pintail - 4 - 2 shot not saved
unidentified ducks 100

Wilson snipe - 6 one shot

✓ Grebe, Eared - one taken saved

Killdeer - 20

Sandpipers (western? east?) - 50

King fisher - 1

Coots - 100

Mourning doves - 90

Inca doves - 6

Spotted Sandpiper - 1

Journal

Borrell
1964

Lago La Lajas, Rio Santa Clara, El 4900 ft.
Chihuahua Mex

Nov. 23

Hiked up the Rio Santa Clara
to a point where I could wade
it above where it empties into
the lake, then hiked down stream
and along the east side of the lake
where I collected a bufflehead duck.

Later I hiked through the mesquitos
and cholla near camp on the
west side of the lake

Birds seen

Bufflehead - 1

Mallard - 30

Mexican Duck - 6

Green winged teal - 25

Spoonbill - 6

Ruddy duck - 10

Pintail - 5

Sparrow hawk - 2

Sharp shinned hawk ♂ - 1

Marsh hawk - 1

Red tailed hawk - 1

Wilson Snipe - 30

Killdeer - 8

Spotted Sandpiper - 2

Scaup - 1 - first seen.

Borell
1964

Sago Sajas, Rio Santa Clara El 4900 ft
Chihuahua Mex.

Nov 23 continued.

Western or Least Sandpiper - 30

Mourning dove — 50

Inca dove — 15

Roadrunner — 2

Barn Swallows — 6

P.S. Flicker - 2

Curve-billed thrasher — 6

Cenderos Warbler — 8

Boat-tailed grackle - flock of 12

Red backed junco — 20

Brown towhee — 8

White Cr. Sparrow — 12

Chipping Sparrow — 2

King Fisher - 1

Black Phoebe — 6

Junco — 20

Cactus wren - 50 - more numerous than I have ever observed before. Of special interest is their presence among logs and drift wood along the lake shore. In one case I counted ten around one group of logs. They are more concentrated along the edge of the lake than among the cholla.

Borell
1964

Sago La Sajas, Rio Santa Clara,
El 4900 ft. Chih. Mex

Nov 23 Continued

Coot - abundant on all parts of
the lake.

Vermilion Flycatcher — 3

Ruby Crowned Kinglet. - 2

Scaled Quail - 15

Gambel Quail - after looking at pictures
natives said they had not seen this
quail here.

Mammals

Cottontail - none to date

Jackrabbit - 1

Coyote - heard ad many tracks seen.

Raccoon - tracks on all the trails near
the lake

Rock Squirrel - 2

Pocket gopher - sign abundant.

Woodrat - frequent sign among meadows
as cholla

Gray Fox - natives, after looking at
pictures, said this species common here

Ring tailed cat - after looking at

pictures natives said it is common.

Feral house cats - 2

Skunks - several (striped) dead along the
roads - tracks common along the trails.

Borell
1964

Journal

Chihuahua, Mex.
Pago La Sajos, Rio Santa Clara, 4900 ft
Nov 24

Drove to Ricardo Flores Magón
Saw one covey of 12 Scaled quail.
A group of 3 natives came to camp
with a bag of 45 scaled quail
that they wanted to sell for \$7.00.
Obviously they had been trapped.

Nov 25

Hiked up the Rio Santa Clara
and around the upper end of
the lake.

Some birds seen -

Mearns quail - 1

Mourning dove - 200

Spotted Sandpiper - 2

Wilson Snipe — 20

Pied-billed Grebe - 6

Western (Least?) sandpiper - 20

- Kingfisher - 1 wild, unable to collect it.

Eared Grebe - 3

Ruddy duck - 8

- Scaly (Lesser?) - 1

Bufflehead — 3

Floonbill - 4

- White-throated Sparrow - 1

Red Tailed Hawk

Journal

Borell
1964

Chihuahua, Mexico.

Jago La Sajas, Rio Santa Clara, 4900 ft. el.
Nov 26 Thanksgiving.
Stayed around camp.
New birds seen
Yellow bellied Sapsucker
Bark Bunting - 1
~~Degos wren~~ ^{Bewicks} Bewich - 1
Black throated Sparrow - 2

Nov 27

went to Ricardo Flores Mayor in the morning and worked around camp in the afternoon

In the evening (about 7:30 p.m.) Emilio Montemayor, Supt. of the new presa came to camp with three other men. It was a social call but also they wanted to borrow a spot light or flashlight so that they could hunt ducks on the lake at night. They said they had a home made boat.

There are perhaps ³ hundred ducks of all kinds on the lake. They feed along the shore and in the shallow upper end but spend most of the day ^{in small groups} or the open water.

Borell
1964

Journal

Chih. Mex

Lago La Sajas, Rio Santa Clara at 4900 ft
Nov 28

Took a long hike up the Rio Santa Clara, also a trap through the Mesquite and Cholla near camp.

New birds seen

Pyrilophia - 2

Mocking bird - 1

Green tailed Towhee - 1

White throated Sparrow - feeding alone on the ground near camp - second one seen here this trap.

Belted Kingfisher - 1. Third time seen likely the same bird. very wild. wouldn't let me get within gun range.

Bewick wren - 1 second time seen

Mallards - Diaz Ducks - about 40 jingzed from wide places in the river. I now estimate that there are about 100 mallards and Diaz ducks in the vicinity. These two species are often together but usually not with other kinds of ducks. In most cases Diaz ducks predominate in the flocks. In one case I counted 12 in one flock and 20 in another which all

Borrell

1964

Nov 28 continued

Lago La Sajas, Rio Santa Clara

4900 ft. Chih., Mex

appeared to be Diag Ducks. These large ducks appear to feed in the cornfields at night then spend the day on the lake or along the river.

When the lake fills this should be a fairly important stopping place and possibly wintering place for many kinds of ducks. Also it will be a real help to nesting Diag ducks.

Hunting - There were no other American hunters here during our stay. I expect that there will be American hunters here when the lake fills and becomes better known.

I was surprised at the number of native hunters. we saw hunters and heard shooting every day. Most of the hunters had 22's, at least two had shot guns and we heard some shooting that sounded like a rifle larger than 22.

Journal

Bouell
1964

Jago La Sajos, Rio Santa Clara
4900 ft. Chih. Mex

Nov. 28 Continued.

At present there is only one poor homemade boat on the lake. When boats become available we can expect duck hunting to increase.

Although quail trapping is common here we saw no evidence of duck trapping.

Nov 29

Spent the day packing.

In the evening took a short hike around the head of the lake.

* Common Goldeneye - just one seen.
Mourning Doves. During the just few days here doves were common but not abundant. On Nov 25 they suddenly increased. ~~By 26~~
 Apparently they reached their peak yesterday when flocks of 2 or 3 hundred were seen. I saw 50 to 100 doves in each of several dead trees yesterday evening.

Journal

Borell Lago La Sajas, Rio Santa Clara Chih. Mex
1964

Nov 29. Continued.

Doves are still abundant but apparently far down from yesterday's numbers. In the same trees in which I saw 50 or more yesterday there were 10 to 20 today.

Heros from Nov. 20 through 29 we saw no green or other herons.

Nov 30

Left camp at 8 a.m. - reached Las Cruces New Mexico at 4 P.M.

Dec 1. Left Las Cruces, N. Mex., at 7 a.m. - reached Albuquerque at 2 P.M.

Dec 2-4 in along route N. Mex.

Dec 5 Left along. 11 a.m. - reached Springer N. Mex. at 5 P.M. - snow and very cold.

Dec 6 Left Springer at 9 a.m. - reached Denver at 3 P.M.

H. Borelli

1966

Journal and

Catalogue

*6326-6327

Catalogue

Borell
1966

Dijo Pajuna, 5200 ft. el.
Chihuahua, Mex April 16

6326 Cattle Egret ♂ tes. 10x4 very fat. iris light yellow, bill bright yellow, legs greenish gray, more greenish on bottom of feet, around and above the knee. Bird was alone, sitting on a fence post in a pasture. First seen at 10 am. collected in same area at 6 p.m. This is the first cattle egret I have seen in Chihuahua.

6327 Ring-necked duck ♂ tes. 14x4 Good shape but very little fat. It lit on a small bog pond at 6 P.M. with another of the same species. New record for the Sierra del Nido area.

Journal

Borell
1966 Ojo de Agua, 5200 ft. elev. Sierra
del Rido, Chihuahua, Mex.
Gutierrez Ranch.

April 13.

Marguerite ad I brought
our trailer to this old collecting
site at 10 am. yesterday. Found
m. ad mrs. Gutierrez in
good health ad cordial
as usual.

Dr. ad mrs. Martin H.
Gonzalez, Director, Rancho
Experimental la Campana
stopped by yesterday afternoon.
He reported that last year
he had heard of two small
black bears being killed
in the range south of
the Sierra del Rido. He has
had recent reports of grizzlies
from this area.
Gonzales, whose experimental
station is about 15 mi. south
of our collecting site (on
the Gutierrez Ranch) said
that the average rainfall all
here is 14 inches. The last

Borell Ojos Sa juna, 5,200 ft. el.
 1966 Sierra del nido, Chihuahua
 Mex.

Apr. 13 continued.

Two years, 1964 ad 1965, have been very dry - less than 7 inches each year. Most of the rain comes in July ad August with small amounts in June ad Sept.

This morning I took a long walk (4 hrs) through the mesquites and out to the ojos in the Tabosa flats.

Mesquite is just beginning to come into leaf, willows are in flower, catclaw shows little green, cottonwoods are about half way to full foliage - there is little evidence of the emergence of animals.

Due to the two year drought the ojos are low ad most of the wet areas resulting from the overflow from the ojos are dry.

Borell
1966

Ojo Sajama, 5200 ft. el.
Sierra del Nido, Chihuahua.
Apr 13 cont.

Birds seen - Wilson snipe - 2
Mexican duck ♂ ♀

Turkey vulture - 6

Sparrow hawk - 2

Swainson hawk - 2

Marsh hawk - 3

Scalped guail - 20 - there are
still in flocks. Heard no calling
and saw no evidence of pairing
or mating. I hunted especially
for Gambel's quail that I
saw here in Nov 1964 but
saw none.

White winged dove - 1

Mourning dove - 30

Roadrunner - 1

Hummingbird sp? - 1

Padded backed woodpecker - 2

Say Phoebe - 1

Vermillion fly catcher - 3

Cassin's Kingbird - 3

Ash-throated Fly catcher 2

Red-tailed Hawk 6

Barn swallow - 6

Wood Pewee - 1

Borell
1966

Ojo Sa juna, 5200 ft. Sierra
del nido, Chihuahua has met
Apr. 13 cont.

Raven — 6

Verdin — 5

Gnatcatcher — 3

Wren, Cactus - 1

" maguia - 1

Mocking Bird - 2

Thrasher, crissal - 1

Butcher Bird - 1

Andean warbler 2 ♂ 1 ♀

breeding plumage
yellowthroat ♂ 1 ♀

Orange-crowned warbler - 1

English Sparrow — 5

Blackbird, - Brewer - 30

Boat-tailed Grackle — 6

Bullock Oriole ♂ apparently
arrived to day - none seen or
heard in the cottonwoods around
camp yesterday.

Sparrow (housefinch) - 8

Goldfinch, black-backed - 5

Pyrrhuloxia - 2

Towhee - green tailed - 20

Parakeet - 30 along the road
but not here at camp.

Borell
1966

Ojo Laguna, 5200 ft. Sierra de
Nech, Chihuahua state.

Apr 13 continued

Sparrow black throated - 3

" Lincoln - 10

Chipping sparrow - 50

Brewer " - 10 - not
nearly so abundant as in the
spring of 1963 & 1964

White? Crowned sparrow - 8

Juncos - pink sided - 1

" - red backed - 3

Pine Siskin - 30

Meadowlark - 8 - song indicated Eastern
and "western"

Mammals -

Coyote - 2

Citellus (spinosus?) - 1

Peromyscus maniculatus = ~~Peromyscus~~

Common and camp. 4 traps
yielded 3 last night.

Neotoma - caught one near camp
last night

Spermophilus - saw one in grass
among mesquitos.

Borell

1966

Ojo Laguna, 5200 ft. Sierra
del Medio, Chihuahua mts
Apr 13 cont.

Mammals cont.

Cottontail. Cottontails have
greatly increased since the
spring of 1963. If my memory
serves me correctly during
March and April of 1963
I saw only 4 cottontails. In
the late April and early May of
1964 I saw a few more but
they were still rare. In
Nov. 1964 an hour in the
mesquite and catclaw would
result in seeing 2 or 4 cottontails.
To-day in the same areas
I saw no less than 20
different cottontails. Furthermore
they were more widely distributed
- several were seen in grassy
areas with few mesquites that
did not appear to be favorable
habitat for cottontails. Two
appeared to be young of the year
and one of what for the nest
contained 3 (half inch) embryos.

7

Borelli
1966 Ojo Laguna, Segura del Río
5200 ft. Chihuahua Mts
Apr 13 cont

Mammals - cont.

Lepus californicus - In March
April 1963 jackrabbits were
scarce but were more abundant
than cottontails. In 1963 an
early morning or late evening trip by
car along the two mile road
leading from the camp to the
highway would usually result in
seeing one or maybe 2 jacks.
In 1964 (Apr.-May) ~~but~~ to three
were commonly seen along this
same stretch of road.

I was not here in 1965
This year on a trip up and
down along this same stretch
of road I counted 10 jacks.

Borell
1966

Ojo Saguna, Sierra del nido
5200 ft. Chile, Mex.

Apr. 14

A gain spent the morning
hiking through the mesquites and
cacti in search of Gambel
grouse - to no avail.

By noon the temp. had dropped
the wind was blowing and
dense clouds were gathering. Between
4 and 5 P.M. we had about $\frac{1}{4}$ inch
of rain accompanied by
thunder and lightning - most
unusual to have rain at this
season - especially during a period
of drought - Mr. Gutierrez (at
this camp) was happy.

Apr. 15

Cold, windy and cloudy - took
a hike through the mesquites
- critters were scarce - nothing
new. By 4 P.M. we needed lights
in the trailer. Between 5 & 6 P.M. during
a thunder and lightning storm we had
a small cloudburst - at least an
inch ^{or rain}, maybe two. Every trail and
gully became a small river.

Borell
1966

Ojo Saguna, Sierra del
Mido, 5200 ft. elev. Chihuahua, Mex.
Apr. 16

After the down-pour between
5:26 P.M. we had a gentle
rain until about 10 P.M.
This morning the sun came out
bright and warm.

The rains of Apr 14 & 15 are
most unusual. Coming at this
time of the year they should have
a decided effect on annuals
other vegetation and this on
mudflats.

Searched the Gambel grain
country and the ojos until 2 P.M.
and then again in the evening
saw no Gambel's and only 10
scaled quail.

New birds seen

* Cattle Egret - collected
Coot - 2

Wilson warbler ♂

Redwing 2 ♂

* Amer. goldfinch - ♂

* Ring-neck duck - 2 - 1 collected
Killdeer - 2

* = new to the del Mido Survey

Borell
1966

Ojo de Agua, Sierra del Rido, 5200
ft. el. Chihuahua Mex
Apr 17.

Cold windy and partially
cloudy day
new birds

- x Belted Kingfisher - new for this
not collected - too wary. location

Ruby Crowned Kinglet.

Apr 18 Cold and windy
7 am. watched neotropical flight
of 4 Diaz ducks. A ♀ quacking
loudly and continuously flew
in a wide high arc for
about $\frac{1}{2}$ mile. She was closely
pursued by two (silent) birds
apparently males. A fourth
bird followed (silent) about
100 feet behind the other three.
This is the fourth time I have
seen these flights in the six
days. In the first instance
the ♀ quacking loudly and continuously
was followed by only one ♂
(silent). In the other cases she
was followed by 2 ♂s. Two flights
were in early morning, two
at dusk. *(See p 11)

Bouell
1966

Ojo de Agua, Sierra del nido.
5200 ft el Chihuahua Mex.
Apr 18. cont.
new birds.

Barn owl - one flushed from
large cottonwood. None
heard Barn owls - screech
on previous nights.

Apr 19

Left camp at 7 am. headed
for Juarez ad home.

* About $\frac{1}{3}$ as many Diaz ducks present
in this area as were here in April
1963. This is likely due to the drought
- there is little water except that in
the 4 principal ojos.

A.E.B.

